



Regions for economic plansing gurposes have, at time of going to press, been defined for all areas of Great Britain except the South East (See Appendix, Table 1)

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The North West

A regional study





Preface

This report on the North West Economic Planning Region summaries the results of a study made by a proof of foliable from Government departments economical that regional planning, with the object of providing a basic on which future plans for the region can be drawn up. It comins of a general survey and analysis of foliables about the regions; an appearised of the principal characteristics and problems; some suggestions about the way in which the more urgent toods might be mot; and proposite for further reasonch.

In the course of the study the group received a great deal of help from people in the region who related a wide range of local interest and experience—in industry and commerce, in universides, in voluntary organisations and in local generament. The local planning authorities provides a provided valuable information, estimates and general views about the problems in their areas. The constent of the report are, however, the responsibility of the group along.

The report has been referred to the North West Economic Planning Council and is being published so as to enable others concerned with the problems of regional planning to express their views on the findings contained in it. These should be communicated, in writing, to the Secretary, North West Economic Planning Board, Saudry Building, Piccadilly Plaze, Manchester, I.

ECONOMINE PARISING DORAG, among reasoning, reconsery rane, reasonates, refor referring the report to the regional Economic Hanning Council, the Government have made it clear that they are not in any way committed by the study group's findings, and that any proposals for action which may be made will have to be considered in the light of the National Economic Plan and of grostrammes and onlicies for the country as a whole.

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- North West Region-General reference map (in pocket on back cover)

The maps and diagrams in this study have been prepared by the Ministry of Housing and Local Government



Fig. 2. The main built-up areas of the North West 1958 The map shows the extent of built-up areas at the latest date for which information on a uniform Printed image digitised by the University of Southempton Library Digitisation Unit

best in really available automatic vests in one seems that on written annuments on a uniter-busis is really available automatically. Open sees on the periphery of courn, e.g. hospitals, institutions and bosses in large grounds and sirfields, see not shown as bulle-up; within sooms only the largest and houses in large grounds and accesses, are not account as ourse-up, wearst wowen unity are surgest, open spaces are shown. Boundaries of the firee divisions of the North West (see Appendix, Table 2) xii

1 The North West Region

THE REGION

The North West Economic Planning Region consists of the two counties of Lancashire and Cheshire and the small part of Derbyshire known as the High Peak District. No more than any other region is it a self-contained or precisely defined area; but most people would probably agree that it has as clear an identity as a region as any part of England. To some extent this is a result of geography: a narrow strip, nowhere much wider than seventy miles from east to west. and barely more than one hundred from north to south, it is broadly bounded by the Lake District mountains, the Pennines, the Irish Sea, and the

Mersey and Dee estuaries. 2. More important to its character, the bulk of the region's 61 million population is concentrated in comparatively small areas-the most important of which is the belt dominated by Manchester and Liverpool (referred to in this report as the "Mersey Division"),1 Although the North West covers only about 31 per cent of the total land agreese of Great Britain, its normation accounts for more than one in eight of the country as a whole. Nearly 5 million people live in the Mersey Division, which after London is the most densely populated area on this scale in the country and one of the greatest urban industrial complexes in the world. There are also further concentrations in the Ribble Valley. North East Lancashire, and the coastal resorts

3. The result of this concentration is that much of the region still remains predominantly ruralparticularly in South Cheshire, and in Lancashire north of Preston (including Furness). It is one of the region's advantages that none of its towns is very far from attractive countryside, and that it contains several areas of exceptional natural

beauty, including parts of the Lake District and Peak District National Parks, Agriculture continues to be of importance-nearly three quarters of the land in the region is still used for farming: and the Lancashire and Cheshire plains lying north and south of the conurbations contain some of the finest agricultural land in the country (See Figure 3.) 4. But despite its large acres of countryside, it is

the industrial complex which makes the most lasting impression on all who come to the region. or live in it; and it is on the industrial complex that the past has left its most unpleasant scars. The tracts of derelict industrial land which blight many of the towns, the drab, huddled shopping centres, the ugly obtrusive factories and mills, above all the streets and streets of old, mean and dilamidated houses-these are constant reminders that the character of the region was forged during the heyday of the Industrial Revolution. Throughout the nineteenth century the economy of the North West boomed, its population grew at a tremendous pace and its towns doubled and redoubled their size. Manchester could then claim with some justice to be the centre of gravity of industrial Britain.

5. The First World War marked the end of this long period of buoyant self-confidence. In the inter-war years, the North West began to pay the penalty for its earlier distinction of being one of the areas where modern industrial civilisation first began to flourish. The industries on which its economy had been founded-coal, shinbuilding and, of course, cotton-met with growing international competition and could no longer hold their traditional markets: its ports suffered from the slackening in Britain's overseas trade; unemployment was a persistent problem and 1 The area covered by the Mersey Division is shown in Figure 1 and defined in Table 3 of the Statistical Appendix.

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The classification of land in the Furnass sub-region is based on the Land Utilization Survey of Britain and in the remander of the Region on an assessment by the Ministry of Agriculture, Pisheries and Food 2

population began to drift away. The consequences of this history have huilt up into a formidable task to be faced in the future—hoth in replacing outworn housing and the many other forms of social capital, and in revitalising the region's sconomy.

6. These hardinages are of counter to a great extent harded by most of the older industrial stress of Bittain. Nor should it he inferred that the people of the region are not tacking the job. Much has been often or will soon be done, the benefits of the boars often or will soon be done, the benefits of the most of the people of the people of the people of the most own, the stress of the people of the theory of the old the people of the people of the theory of the people of the people of the people of a term gard vigorous economic beas, growing at a much falter and the late of the people of the peo

THE PATTERN OF THIS REPORT

7. This report starts by showing how the region?
7. This report starts by showing how the region?
propulation stands in relation to the nation, and what shifts have taken place through migration and matural faces.
If a tempt some genese and the start of the region of the

8. Next, the report reviews the transport network and assesses the region's principal transport needs for the future—for transport is one of the most important elements of physical environment, particularly in determining attractiveness for industrial development and expansion.

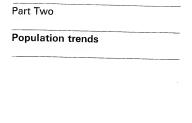
9. An attempt is then made to assess total housing noces, be implication for house huiding notes, and the need for housing limit, and the need for housing limit, as as to see how far, if people have jobs to do, they can be equally sure that they will have fit homes in which to live. As part of this assessment, other housing the provision of greee belts, availability of water, town centres in need of renewal, derelict land, and air pollution.

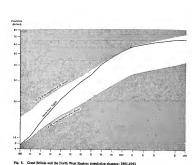
10. The report concludes with a nummary of in own analysis; and finally with a chapter on the future, which rest out what soom to be the main implications of the analysis for action and dealedons. Some uppent decisions which will have dealedons from the control of the control of the North West three analysis for analysis when the control of the North West three already been made white this report has been in preparation. In particular, it has been aumonomed that a large new town in to be central on the Loydon-Chordov pers and that the control of the contr

11. In the various sections of the report an attempt is made to show the extent to which the experience of different parts of the North West has varied from that of the region as a whole. These sub-regional variations are very striking and merit a feller examination than has been possible at this stage. However, some detailed work has been done into the position and prospects of certain areas. A full analysis has been made of Merseyside's employment problem and this is to be published as an appendix to this report. The part of Lancashire north of the Ribble (including Furness) is included within the area heing covered by an economic and social survey which has been commissioned from a research team in the Department of Economics at Lancaster University, under the supervision of Professor S. G. Sturney. The first results of this survey are expected to be available shortly and will be presented to the North West Economic Planning Council and Board. So too will the results of a preliminary factual study which has been made of the special problems of North East Lancashire.

12. This report is not insteaded to be a comprehensive survey or they definitive answers to the North West's problems. Quite apast from the lack of a fuller analysis of solv-regonal problems, there are many other aspects of the North West. Seems of these are outlined in the chapters which follow. But it is hoped that this report will provide a useful starting point for the work of the North West Economic Plenning General and of the North West Economic Plenning Board.







During the foll years stone the first Comers in 1810 the properties of the total population of Great Relation Breing in the Nerth Worth Start ranged between \$2 to year (see fig. 1830) and \$1.4 per cent (s. 1830). In the diagrams the population of the Nerth Worth Region at each Comers in plotted on a longarithmic soulty population engowines to \$2.5 per cent of \$1.4 per cent of the population of Comers and Relation as who the standard of the properties of \$2.5 per cent of \$1.4 per cent of the population of the Relation as a whole standard of the properties of the properties of the properties of the proposition between ratios of population population has forcement.

2 Past trends and present position

THE GENERAL PICTURE

 In mid-1964, the population of the North West Region was a little over 6,660,000. This represented 12-7 per cent of the population of Great Britain as a whole—shout one person in

eight—and was the highest total for any region outside the South East.

2. The North West's share of the national population rose steadily in the inneteenth century, from 8 per cent in 1801 to 14 per cent in 1901. Since then, however, it has gradually decided, (See Figure 4.) In other words, although the number of people living in the North West has increased considerably since the end of the First World War, population growth in the country as a whole has been more rapid.

3. Both net outward migration from the region,

and a rate of natural increase which has been below the national average, have contributed to the North West's slow population growth. (See Figure 5.) Outward migration has not been so heavy in recent years as it was in the 1920's, and seems to have been quite negligible since 1961. The region's rate of natural increase has been affected by death rates which buve been a good deal hisher than the swream of Findens and

Table 1 Civilian Population and Population Density 1964

| Arca Economic Flammar Review | Civilian Population 1964 (Thousands) | Area in acres (Thousands) | Gross population density Personniagre |
|---|--|---|--|
| I making pagaw | Noz. % | Noz. % | Permujacre |
| Great Britain | 52,319 100·0 5,180 9·9 2,668 5·1 6,662 12·7 | 56,805 100-0 19,463 34-3 5,130 9-0 1,973 3-5 | 0-9 0-3 0-5 3-4 |
| S.E. Lanca. Conurbation Morrowide | 2,449 4-7 | 243 0-4 | 10-1 |
| Conurbation | 1,385 2·6 18,129 34·7 | 96 0-2 9,863 17-4 | 14-4 |
| West Midlands West Midland | 8,170 15·6 4,913 9·4 2,384 4·6 | 462 0-8 3,216 5-7 | 17-7 1-5 13-9 |
| East Milands Yorkshire and Humberside | 3,226 6-2 4,672 8-9 | 3,014 5-3 3,503 6-2 | 1-1 |
| Northern South West | 3,287 6-3 3,584 6-8 | 4,781 8-4 5,862 10-3 | 0·7 0·6 |

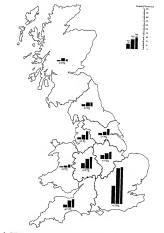


Fig. 5. Crillian separations total changes 1951-56, 198-64, and 1961-56
The heights and widther of the same proportionals to the mean annual total change and to the length of the period respect new? Thus, volume of change is represented by the area of the columns. Percentage growth over the respect to the period respect new to the period respect to the period re



Fig. 6. Divisions, sub-divisions and sub-regions of the North West Region (see Appendix, Tubles 2-5)

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Wales, and which have more than offset the effects of birth rates slightly above the national level. (Migration is discussed in more detail in paragraphs 8-12; natural increase in paragraphs 13-16)

4. Nevertheless, the North West remains one of the most densely populated areas of Great Britain. In 1964, the gross density of population in the North West was 3-4 persons per acre-by far the highest figure for any of the regions. By comparison, the figure for the South Fast was only 1-8 persons per acre and for the whole of Great Britain 0-9. Moreover, extensive areas of the North West are not built up and the density of population in those that are is very much

higher even than the regional average. 5. For the purpose of analysing the past and present distribution of population within the region, the total area has been divided as shown in figure 6. The three main units are the North Lancashire, Mersey and South Cheshire divisions. These have been broken down into sub-divisions and sub-regions, the basic units of which are local authority areas. The same groupings of local authority areas have also been used in later chapters for the purpose of making population projections and calculating housing needs. 6. The population of the North West is in fact heavily concentrated in the Mersey division. which includes the South East Lancashire and Merseyside conurbations. In 1964, nearly 5

region's population) were living in this area Another 11 millions lived in the North Lance shire division, while only about 400,000 lived :the South Cheshire division.

7. Within the region, there has been a clear, but gradual shift in population patterns going on in recent years. Population has been declining in the older industrial towns on the Pennine slopes to the north and east of Manchester and in the centre of the conurbation itself. On the other hand the areas of most rapid population growth have been the southern fringes of both conurbations, the coastal towns of the Fylde and certain urban areas on the main north-south communications route now followed by the M6 motorway,

MIGRATION 8. In common with Scotland, Wales and other northern regions of England, the North West has experienced a net loss of population as a result of migration virtually throughout the whole of the period since the end of the First World War. However, the rate of net migration away from the North West has generally been lower than for any of the other "exporting" regions, 9. Outward migration from the North West was heaviest in the 1920's, but was substantially reduced during the 1930's. Meaningful figures cannot be given for the war, and immediate north war, years, but those for the early 1950's show outward migration continuing, at a higher rate

million people (about three-quarters of the

Table 2 Mean Annual Migration in Great Britain

| | | (% of total | population) | |
|---|---|---|---|---|
| Standard Region | 1921/31 | 1931/39 | 1951/61 | 1961/64 |
| Great Relatin Sootland England and Walte England and Walte ENGLAND AND WALES! Northern East and West Ridings North West Wales North Médiland West Middand South East South West | -0·13 -0·80 -0·04 -0·78 -0·13 -0·26 -0·97 -0·04 -0·19 +0·46 +0·01 | +0·14 -0·06 +0·16 -0·61 -0·13 -0·12 -0·38 +0·14 +0·34 +0·66 +0·19 | +0·01 -0·55 +0·07 -0·24 -0·25 -0·19 -0·18 +0·16 +0·11 +0·28 +0·29 | +0-15 -0-67 +0-24 -0-16 -0-01 -0-07 +0-07 +0-35 +0-31 +0-35 +0-67 |

NOTE:

Corresponding data for all economic planning regions is not available for the periods 1921-1939. For periods after 1951 see Table 10 in the Statistical Appendix. 10

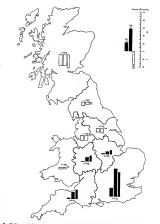
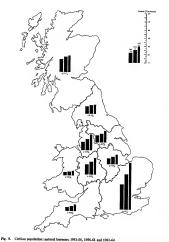


Fig. 7. Critian population: estimated not migration: 1951-54, 1956-51 and 1961-64
The brigina and widths of the columns are proportional to the mean annual not gain or loss by min on the bright of the paried respectively. Thus, volume of not migration is represented by the first of the paried respectively. Thus, volume of not migration is represented by the contract of the paried paried of the paried p



The heights and widths of the columns are proportional to the mean annual natural increase and to 165 folgons any swenty to any commun site proposed to the control of the period respectively. Thus, volume of natural increase is represented by the area of the column. Percentage growth over the period 1991-64 as a whole is given in figures. The total natural increase 1991-64 in Care Britain was 3,107,000 or 6.8 per const (not Appendix, Table 6-9)

12

than in the 1930's although not so high as in the 1920's. Towards the end of the 1930's net out-ward migration appears to have declined to a rate similar to that in the 1930's. The latest figures suggest that migration from the region bas virtually coased.

10. Net migration is known to be the product of very much larger gross movements of population into and sway from the region, but little is at present known about the exact site and composition of these gross movements. However, something can be learnt from the figures of interregional migration of employees which the Ministry of Labour derive from their annual one per cent sample of National Insurance cards.¹

ner cent sample of National Insurance cards.1 11. Between 1951 and 1962 there was a net loss of 45,000 employees from the North West, which was the result of just over 650,000 workers moving into the region and just under 700,000 moving out. Gross movements have tended to increase since 1957, but the annual net loss from the region has varied very little and over this more recent period has averaged only 0-15 per cent of the region's total employees. It appears that over the ten years 1952-62 there was a continuous net loss of male employees to South-East England averaging just short of 4,000 each year while losses to the South West, the West Midlands and the East and West Ridings were relatively insignificant. On the other hand, there seems to have been an average net gain of about 1,200 male workers from Scotland annually and small net gains from the Northern Region and

12. Some of the effects of past migration on the composition of the region's population are revealed by an analysis of the statistics of kirch-revealed by an analysis of the statistics of kirch-revealed by the state of the

NATURAL INCORPA

33. The rate of natural increase in population in the North West has been considerably which we have very life in Fighted and Wales is size the end of a wavespe in England and Wales issue the end of the Hernite World Wales. (See Figure 8.9. This has mainly been due to relatively high dosin rates which have convenient the effect of order a rate which have convenient the end of the rate of the control of the end of the end of the end of the control of the end of the end of the end of the Wales. Between 1931 and 1952, the crude high Wales Revenue 1931 and 1952, the crude high Wales Revenue 1931 and 1952, the crude high the control of the end of the end of the end of the thousand population or 3 per cent above the verrage for fingulate and Wales. See companies of the end of the end of the end of the end of the thousand—10 per cent above the companies of the end of the end of the end of the end of the perfect fingulate and Wales.

14. This high death rate cannot be explained solely by differences in age structure between the population in the North West and that in England and Wales. The standardized desib rate

Table 3 Population Changes-1921-1964

Wales

| Period | | | To Incr | | Nat Che | wro! Inge | Estimated Gain from | Bolas Migr | ace of action | Thousands Mean |
|---|---|---|-----------------------------------|---------------------------------|--------------------------------|---------------------------------|------------------------|------------------------------|------------------------------|----------------------------------|
| | | | No. | % | No. | 1% | Armed Forces | No. | % | Amual Migration |
| 1921-31 1931-39 1951-56 1956-61 1961-64 | : | : | 126 40 51 110 120 | 2-1 0-6 0-8 1-7 1-8 | 282 99 101 134 114 | 4·7 1·6 1·6 2·1 1·7 | 10 37 6-5 | -156 - 59 - 60 - 60 | -2·6 -1·0 -0·9 -0·9 | -15·6 - 7·4 -12·0 -12·1 |

¹ These figures are shown in detail in Tables 35 and 36 of the Statistical Appendix.
² See Table 17 of the Statistical Appendix.

³ The crude birth rate is the number of births per annum in relation to the total size of home population. The standardized birth rate is the crude race adjusted to take account of the age-see-markel structure of the population. The standardized death rate is a ministry adjusted version of the crude death race is a ministry adjusted version of the crude death race.

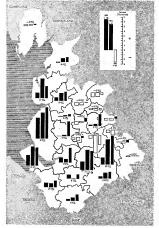


Fig. 9. Civilian population: total charge: 1931-56, 1956-61 and 1961-64

The heights and widths of the columns are proportional to the mean annual total change and to the

length of the period respectively. Thus, welcome of change is represented by the area of the columns. Ferentiage growth over the period 1951-64 as a whole is given in figures. The total increase 1951-64 in the North West was 262,000 or 44 per out (ioe. Appendix, Tables 11-14).

in 1931-02 for the North West was 137 per hospand—even further from the national average. The main causes of death for which sumedized death there are particularly high in the North West (brondlish, certain types of the North West (brondlish, certain types of causes for which death rates are high in comurations and targe clies generally. This suggest team causes for which death rates are high in comurations and targe clies generally. This suggest team to main reason for the region's high death rates in simply that a high proportion of its population, serious armospheric politation and the cool in and vert climate of tomos of the high versus probably were climate of tomos of the high versus probably

and pay a part.

15. There is no sign of this regional differential
in death rates becoming less marked over time;
if anything it appeared to be growing larger in
the later years of this poriod.

16. In the North West, as in England and Wales there has been a sharp rise in birth rates since the mid-1950's. In 1951-56, the crude hirth rate for the region averaged 15-8 per thousand population; for 1957-62 the average was 17-6. Together with the fall in the rate of outward migration from the North West which occurred in the later 'fifties, this rise in birth rates has resulted in a substantially faster rate of population growth in the region than in any recent period. Between 1951 and 1956 the population of the North West increased by 0-8 per cent, between 1956 and 1961 by 1-7 per cent, and between 1961 and 1964 by 1.7 per cent, a rate which, if maintained. would amount to 30 per cent over a five-year period. But the rate of population growth in the North West is still slower than in England and Wales generally.1

AGE STRUCTURE

17. In recent years in Great Britain the population of working age has been growing more storely than the total population. In the North West, however, natural increase and migration trends actually led to a fall between 1951 and 1961 in the total population of working age, (i.e. those between 15 and retting age), and this section now represents a lower than average proportion of the population. Correspondingly.

children under school-leaving age and old people above retirement age account for a slightly higher proportion of the region's population than they do nationally. The implications of this for the region's economy are discussed in Chapter 5.

SUB-REGIONAL VARIATIONS IN GROWTH AND DECLINE

18. Considerable shifts have been going on during the post-was proid in the distribution of population within the region. These are illustrated in Figures 9, 10 and 11. In broad terms, population growth has been most rapid in the southern to the proper of the southern of the southern and Mersovide countrations and Wigna areas such as Preston, Warnington and Wigna which lie on the route of the Mo, and is the Fylds. Population decline has occurred in East Prids. Population decline has occurred in East

19. The Altrinham, Slockport and Macelenida sub-regions have shown the most marked increases in population, principally as a result of movements out of the Manchester countration. Between 1031 and 1544, the Stockport area may be sub-regionally and 1544, the Stockport area majurgation, Altrinham over 32,000 and Macelenial 54,000. These areas rates of natural increase were relatively low, but have more recently abown signs of increasing sharply since it is prodominately young married copples who have prodominately young married copples who have

20. Similarly the Wirral and Caster areas lower gained population as a result of nigration, mainly from North Memoyalde, but in their cass substantial natural increase has also contributed to their rapid rate of growth. The North Memoyale areas to the substantial population growth, despite considerable loses from naimpation, as a result of its externelly slip rate of natural increase.² In the Warnington, Wigns and Cofridy areas there was also mederate population of the substantial population of the control of the weighting migration losses.

regions all gained population as a result of

1 Between 1951 and 1956 the population of England and Wales increased by 1-9 per cont, between 1956 and 1951 by 3-6 per cent, and between 1951 and 1964 by 2-9 per cent.

3 In 1960, 1961 and 1962 the standardized birth rate in the Messyside constitution was respectively 14, 15 and 11 per cent above the comparable figure for England and Wales as a whole.

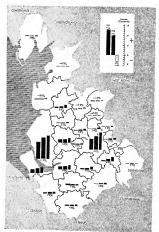
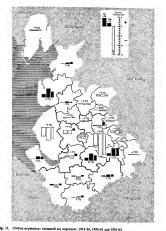


Fig. 10. Civilian population: natural change: 1951-56, 1956-51 and 1961-64 The heights and widths of the columns are proportional to the mean annual natural change and to

the Section of the period respectively. Thus, women of national change is represented by the area of the Singuila of the period respectively. Thus, women of national change is represented by the area of the singuine. Per



The heights and width of the column are proportional to the mean annual not pain or loss by migration and to the heath of the pariod respectively. Thus, volume of not migration is represented by the area of the columns. Percentage change over the period 1951-66 as a whole is given in figures. The total not migration 1951-66 for the North West produced a loss of 120,000 or 1.9 per cent (see Appendix, Tables 11-10).

migration and Preston also had a substantial rate of natural increase. However, the Fylde and, to a lesser exists, the Laneautes whereign are the proportion of old people in their population; as a result whe experienced natural decrease in the period 1951-64 (i.e. deaths exceeded high proposition of the proposition of the proposition; as a result they experienced natural decrease in the period 1951-64 (i.e. deaths exceeded high.) Nevertheless, inward migration was sufficient to result in a rate of population growth well above the regional average.

22. Outward migration was the principal case of the population lones which control in East and North East Lancabire. Henry, peer migration losses have had such a negret peer migration in these area that the population in these area that so fraction increase were also very low, indeed, in the Blackburn, Burnley and Ressaurated in the Blackburn, Burnley and Ressaurated that the property of the pro

3 The Region's future population

1. As a first step in estimating future population tends in the North West, it is useful to make projections based on certain assumptions about entitive and metality rates and magazino. Howentity and metality rates and magazino. Howman and the step of the step of the regions, there were not supported to the regions. The made in the light of likely social and economic trust both regionally and nationally, and of possible policy changes. Some of the relevant lanear are releveded in the succeeding chapters.

HOW THE PROJECTIONS HAVE BEEN MADE

2. Projections of population change in the North West up to 1981 have been made on two alternative bases. The first set consists solely of projections of the natural increase of the existing population and takes no account of planned overspill movement or voluntary migration: in other words, they assume no net movement of population. The second set has been arrived at by adjusting the first to allow for planned overspill and voluntary migration. In calculating the extent of migration it has been assumed that trends and rates of movement experienced in the North West between 1956 and 1964 will also apply in the future. The adjustments for both planned and voluntary movement make allowance only for the population which will actually move, and not for any subsequent eains by natural increase in the population moving or reductions in natural increase in the areas losing population. While any final estimates of future population will certainly have to make allowance for the effect of migration on natural increase, such a refinement would be of little value at this stage.

3. The two sets of projections can be regarded as a pair of beactive which similate a twocal range of possibilities. For the region as a whole and for its ordination and the second protection of the provide hypothetical upper and lower estimates of population growth. But because of their hypothetical contact of the content of the cont

reversed.

4. The projections must therefore be treated with caustion. It would be mideading to try to break them down below sub-divisional level, except for some of the more populous sub-regions, or to attempt to draw up any detailed balance shoet of maximum and minimum estimate of growth. Nor would it be appropriate at this stage to make protections going beyond 1981.

ASSESSMENT OF NATURAL INCREASE

5. The starting point for the local population and an household projections used in the main body of this report is the projection of the population of England and Wellow as a whole which was made by the Government Actuary in 1962. This made by the Government Actuary in 1962 the starting of the Control of the Control

[!] Greater than ±0.5 per cent per annum.

6. The resulting projection of natural increase for the North West as a whole for the period 1962-1981 was 992,000. This has been adjusted to a figure of about 930,000 for the period 1964-1981 for an increase of roughly 14 per cent of the region's population in 1964).

7. Since the main survey material was prepared for this report, however, fresh local population projections have been made which are based on the age and sex structure of population as revealed by the 1961 census and are derived from the Government Actuary's 1963 projection for the country as a whole. But these local projections do not show any significant general change from the earlier ones, and no related projections of bousehold formation have been made. While, therefore, some use has been made of the more recent local projections in the appendix to this report which deals with the special problems of Merseyside, the earlier projections have been retained generally, since it is to them that the latest available housebold projections are related. An additional reason for not making general use of the later set of local population projections is that the 1963 national projection, from which they are derived, has now in turn been superstded by the Government Actuary's 1964 projection which forecasts a substantially greater increase in the national population. The size of

the increase forecast by 1981 is in fact some 20 per cent higher than that forecast by the Government Actuary in 1962. Although, therefore, no local projections have yet been derived from this latest national projection, any projections eventually based on it will be likely to show increases of as high as 20 per cent over the local projections used in this report. In the period up to 1981 these increases would of course be confined to the 0-17 age groups

9. Broadly speaking, therefore, the local projections of natural increase used in this report must be regarded as subject to two important limitations. Firstly, they are related to the age and sex structure of population as revealed by the 1951 census and secondly, they are derived from a national population projection which has now been superseded by one which suggests that a much larger increase in the national population is likely to occur before 1981.

10. They may well therefore prove to be under-

estimates. However, it must not be assumed from this that the corresponding household projections used in Chapter 9 for the purpose of estimating housing needs may similarly prove to be on the low side. Increases in the future average size of households could reduce the efforts of an increased rate of population growth on the numbers of households requiring separate accommodation.

EFFECTS OF MIGRATION

11. In modifying these local projections of natural increase to create a second set of projections which allow for migration, account has been taken of both planned overspill and voluntary movement. Projections of planned overspli movement are based on schemes in progress or agreed by the end of 1964. In addition, account has been taken of the new town proposed for the Leyland/Chorley area and the proposal for the expansion of Warrington to take Manchester overspill. It is assumed that by 1981 a total of 98 000 people will have been accommodated in these areas, 52,500 in the Leyland/Chorley area and 45,500 in the Warrington area. 12. Voluntary migration has been assessed on the

basis of a continuation of average rates of net inward and outward migration between 1956 and 1964. 1956 has been chosen as a base year because of the general increase since that time in the birth rate, the net immigration experienced since then by the country as a whole, and the fact that by 1956 increases in private enterprise house building rates had created a significantly greater freedom of movement than existed in the earlier post war years. 13. On the basis of these assumptions about

migration, a net population increase by 1981 of some 794,000 has been calculated for the meion as a whole (equivalent to a roughly 12 per cent increase over 1964). This would make the North West's total population in 1981 some 7,456,000.

THE BROAD PATTERN OF CHANGE WITHIN THE REGION

14. The distribution of future population increase within the region is likely to be very much in-

1 Table 42 of the Statistical Appendix explains the basis of these assumptions in terms

8 .

4

1001 1001

| Table 4 Estimated Home Population Changes 1904-198 | lation Char | iges 1964- | 186 | | | | | | | | |
|--|------------------------------------|-----------------------------|--------------|--------------------------------------|-------------------------------|--------|---|-------|-------------------------------------|---|-------|
| Arm | Mid-Year Population | Natural Change 1964-1981 | harge 181 | Mid-Year Popularies Projection | Planned Overgolf 1964-1981 | West N | Volantery Migration 1964-1981 Projection | | Estimated Remissor Population | Total Charge 1964-1981 | 20 IS |
| 8 | 8 | S) Nor | %® | (5) | War (6) | ЖE | Post Theretr Not. (8) | ×8 | 600 | West GED | 25% |
| NORTH WEST SECTION. | . 6,661,830 929,180 13-9 7,591,050 | 929,180 | 13.9 | 7,591,060 | Ę. | 1 | -135,100 | - 2.0 | 7,455,960 | -115,100 - 2:0 7,435,960 +794,000 +11:9 | 6-11+ |

60,180 4,080 81,770 91,310 22,680 05,770 24,480 -219.760 + 1 presented in their 9-4 18 ---71,050 102,240 189,040 77 which cannot be regarded as correct below thousands, 116,160 000,300 736,180 452,750 00 38,910 11,500 19,210 58,180 78,960 339,480 111,830 287,600 370 104,660 409,910 764,440 1,581,490 624,360 330 401.3 Furness Sub-Division
Laresster-Fydde Sub-Division
Ribble Sub-Division Warrington-Wigan Sub-Division South East Lance. Sub-Division Merseyalde Sub-Division DIVISION faures in this table, Chekbonin

7

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+201,590 +7,420 +101,000 +93,170 +498,030 +195,930 +278,180 + 23,980 94,400 +

112,080 \$10,910 857,610 5,479,580 1,892,750 902,540 2,684,290 280 8 paragraph

120.05

atbacount natural change in the population which has moved: see Chapter 3,

been made for

No allowance HUDO!

ě

fluenced by overspill and migrationary movements. This is illustrated by Table 4

15. The projections based on natural increase alone show a very high rate of growth in the population of the Mersey division and in that of the Merseyside sub-division in particular. The increase on Merseyside is concentrated in the main in the North Merseyside sub-region, where the percentage increase is over 25 per cent, in contrast to 16 per cent in the South Merseyside sub-region, and 10.8 per cent in the South East Lancashire sub-division as a whole. Much smaller increases are shown for the Lancaster/ Fylde and Ribble sub-divisions. The basic reason for the small increase in the former is the high proportion of retired people living there. The small increase in the Ribbie sub-division is the result of the top heavy non structure of the population in North East Lancashire, where there has been persistent net outward migration of younger people. In general, it can be said that the broad effect of natural increase by itself would be to aggravate greatly the state of imbalance between the highly populated areas of the Mersey belt and the more sparsely populated areas to the North and

South. 16. When, however, these projections are adjusted to take account of planned overspill and voluntary migration, the position is substantially altered. Although migration from the region as a whole is not very large, the broad effect of internal movements is to spread population growth more evenly between divisions and more evenly within the Mersey division itself, Particularly noteworthy is the 44-6 per cent net increase in the Wigan/Warrington sub-division. The only areas to suffer substantial net loss of population are the Rossendale, Burnley and Manchester sub-regions; the net loss in the last case is in the main the result of planned overspill movement

CONCLUSIONS

17. The two basis sets of projections made-those ignoring migration and those ignoring migration and those ignoring migration and the second in the secon

18. In addition it is possible to draw some bread conclusions from the calculations made. The now conclusions from the calculations made in the consistency of the conclusion of the consistency of the conclusion of the conclusion

or Amounter important conclusion is that pleasand coverpill schemes are likely to play a substantial part in re-distributing that growth, not cap because of the large numbers of people likely because of the large numbers of people likely but also because overspill families used to come the conclusion of the because of the because the bed younger and more further demonst in the between the conclusion of the prompting and the properties of the conclusion of th

20. Finally, the point must be emphasized that the projections of natural increase in the North West made in this Chapter must now be regarded as on the low side in the light of the Government Actuary's latest projection for England and Wales as a whole. Any upward revision of the natural increase projections would, of course, be reflected in a similar revision of the projections which make allowance for continuing migration.

Part Three The economy of the Region



Employment statetics are not generally available for economic planning regions in England. Ministry of Libeur regions, as constituted in 1961, are broadly equivalent to regions as used for the 1961 census 24

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4 Employment trends

RECENT EMPLOYMENT TRENDS

In the recent past, the North West's population has been growing a good deal more objustion has been growing a good deal more objustion that of Great Britain generally, which the region's deal to the past of th

2. The fact that this very slow increase in employment has occurred at a time when there has been a slight fall in the size of its population of working age has meant that the North West as a Whole has not suffered from the persistent high uncerployment and heavy outward migration which might otherwise have been expected. Nevertheless the rate of unemployment has remained fairly consistently above the national average rate (see Figure 14) and there has been a small but continuing, not loss of employees as a result of migration!. And on Merseyside, where population growth by natural increase has been well above not only the regional, but also the national, level, high unemployment rates and heavy outward migration have in fact occurred.

ward magration have in fact occurred.

3. At least so far as the provision of jobs is concerned, therefore, the region's economy has shown a lack of vigour and dynamism. The North West has had a good deal more incommon with the other older industrial regions of the country than with the broyant Midlands and

1 See Tables 35 and 36 of the Statistical Appendix.

South East. Part of the explanation lies in the sharp contraction which has courard in recent ways in the bloom forces of some of the North Work's traditional industria—for example could make a limit to the limit

THE STRUCTURE OF MANUFACTURING

4. The North West is a major industrial region and has a much higher proportion of its labour force in manufacturing than is the case in Britain generally, (See Figure 15.) However, this dominance is becoming less marked. In 1953 manufacturing provided nearly half the North West's total employment, as compared with only 40 per cent in the country as a whole. But while manufacturing's share of the national total dropped only slightly between 1953 and 1963 (to 38 per cent), in the North West there was a more noticeable fall (to just under 46 per cent). Nationally, the number of jobs in manufacturing increased by more than 74 per cent over the decade, but in the North West by contrast there was a decline of 4 per cent.

5. Table 5 summarises the resulting structure of manufacturing industry in the region and nationally, by showing total employment in mid-1963 in the various industrial Orders of the Standard Industrial Classification. These Orders are broad groupings and some of them cover very

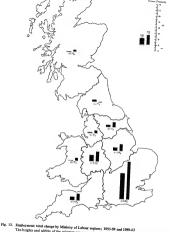
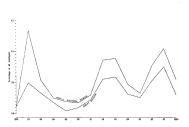


Fig. 13. Endperment total change by Ministery of Labour regions; 1953.59 and 1959.63

The bulgas and widding of the columnt are proportional to the mean annual changes in estimated munkers of employers employed at mid-year regions and both periodic respectively. These, volume of rest and changes in respectively by the areas of the columning provide over the period 1953-60 of the changes in regions and the areas of the column and periodic provides over the period 1953-60 of the periodic provides of the periodic provi

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The annual average of the monthly figures of total registered unemployed (including imporantly atoppes) expressed as a precenting of the estimated number of employees (employed and unemployed) at mid-year is plotted for the years 151-166 for Crest Bristin and for the North Western Region of the Ministry of Labour (see Appendix, Table 34)

Fig. 14. Great Britain and the North Western Region: unemployment rates, 1951-64

diverse forms of industrial activity (for example "vehicles" includes the production of aircraft and railway locomotives and rolling stock, as well as of cars and commercial vehicles). Comparisons at Order level can therefore give no more than a very general impression of the extent to which the pattern of manufacturing in the North West corresponds to the national pattern. Nevertheless Table 5 shows clearly that the range of manufacturing in the region is very wide. While the textile industry remains of considerably more importance to the North West's economy than to that of Great Britain, it now provides less than a fifth of the region's manufacturing employment and has a much smaller labour force than the engineering industry. The clothing and footwear industry is also relatively larger in the North West than nationally and so too are the

chemical and food industries. The only Order

which is substantially less important in the region is metal manufacture.

6. The textile industry in the North West has of course traditionally been based to a very large extent on cotton. In the early days of the Industrial Revolution the western slopes of the Pennines provided the water nower and humid weather conditions which were then thought essential to the cotton manufacturing processes. and throughout the nineteenth century the tremendous expansion of the industry was the basis for the region's very rapid growth. Specialisation within the industry became highly developed, to the extent that towns immediately to the north of Manchester (like Bolton, Rochdale and Oldham) were almost exclusively concerned with spinning, while those further north (like Burnley, Blackburn and Preston) concentrated on weaving. The general organisation of the

Table 5 Estimated numbers of employees in employment in manufacturing industry in the North West and Grent Britain, mid-1963

| | | North | West | Great Britain | | |
|--------------------------------------|----|---------------------------------|-----------------------|-----------------------------|------------|--|
| | Ī | Numbers employed 000s | % of total employment | Numbers employed 000s | % of total | |
| Food, Drink and Tobacco . | | 126 | 4-3 | 805 | 3:6 | |
| Chemicals and Allied Industries . | | 122 | 4-2 | 511 | 2.3 | |
| Metal Manufacture | | 38 | 1-3 | 591 | 2.6 | |
| Engineering, Electrical Goods and | | | | 221 | 2.0 | |
| Metal Goods | | 344 | 11-8 | 2,671 | 11-9 | |
| Shipbuilding and Marine Engineering | | 31 | 1.0 | 211 | 0-9 | |
| Vehicles | | 115 | 1.9 | 866 | 3-9 | |
| Textiles | | 235 | 8.0 | 776 | 3-9 | |
| Leather, Leather Goods and For | | 10 | 0-3 | 62 | 0-3 | |
| Clothing and Footwar | ٠. | 99 | 3-4 | 543 | | |
| Bricks, Pottery, Glass, Cement, etc. | | 46 | 1.6 | | 2-4 | |
| Timber, Furniture, etc. | | 30 | 1-0 | 337 | 1-5 | |
| Paper, Printing and Publishing | | | | 281 | 1.2 | |
| Other Manufacturing | | 88 | 3-0 | 621 | 2.8 | |
| Out Administrating | | 58 | 2-0 | 307 | 1.4 | |
| Total Manufacturing Industries | | | | | | |
| ross menoratoring industries . | | 1,342 | 45-8 | 8,582 | 38-1 | |
| | | Green and Address of the London | Street, | THE REAL PROPERTY. | ***** | |

NOTES:

^{1.} These estimates are derived from samples of national insurance card exchanges in June, July and August, and so are subject to sampling and estimation extraordisc can be substantial in the case of small groups.
2. The regional estimates do not take full account of cases where a person is employed in snother region from that it which his card is norbinous.

that in which his card is exchanged.

3. The estimates also include some persons not in employment at mid-year who were not registered as sacemployed in June, but who exchanged their insurance cards during the June to August quarter.

4. Part-time and occasional workers as well as school pupils and students with jobs are reckeded as whole units.

industry was in small to medium-sized units, which mainly confined themselves to one stage

in the production process. 7 In terms of output and exports, the Lancashire cotton industry reached its peak in the wars immediately before the First World War. But there had already for some time been signs that its dominant position in the world was being emded. After 1918, it became very clear that the baleyon days were over and the past half century has been a prolonged, and often painful, period of adjustment for the industry. It grew up to supply cloth to markets all over the world, but has had gradually to accustom itself to a situation where it has been excluded from many markets in favour of local production and has had to re-adjust towards supplying markets in industrial countries (including the domestic market) where

the emphasis is increasingly on production of branded advertised fashion goods. 8. The Government has assisted the industry in recent years by encouraging rationalisation and modernisation and by taking special steps to restrain the growth of imports. The industry's traditional character is being radically altered. Large national companies (particularly LCL and Courtaulds) have acquired a substantial stake in it and are breaking down the old horizontal form of organisation by developing integrated production from the raw material stage right through to marketing. Knitting processes are replacing weaving in some sectors of production. And it is no longer strictly accurate even to talk of the "cotton" industry, since man-made fibres are accounting for an increasing proportion of the materials used.

9. There now appears to be a much better prospect that the industry will achieve greater stability in the future, at least in its output. But interest and interest in productivity will be assential and the demand for labour is therefore likely to go on thrinking. Rowerte, a considerable contraction in the industry's bloomy of the propertion of its workers are now anged over 55. Indeed recruitment of sufficient labour, above and for shift-work, may become one of its major problems, especially if employment generally in the region expands more rapidly in future.

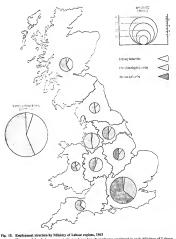
10. Some of the other sections of manufacturing in the North West have traditionally been closely associated with the cotton industry. This was once particularly true of the cheshing industry, but it now use a wide range of fabrics and materials. Well over one sixth of the industry's total engolyomer nationally is in the North Wort. Manchester is the national centre of the minwest reads and also produces a great deal of light clothing. Stockport is a major hatting centre, and sipport and other forecast any nocentre, and sipport and other forecast any notion of the stockport of the stockport and proference of the stockport of the stockport of the Fyde. Most of the industry is made up of small firms but Montages Buriot Lid. employ several

thousand people in tailoring. 11. Much of the North West's engineering industry can also trace its origins back to a close relationship with textiles, though as a supplier rather than a customer. But although the region still contains many of the leading textile machinery manufacturers, it also produces a vast variety of other engineering goods and the link with the cotton industry has become much less significant. About one third of the country's insulated cable and wire industry is concentrated in the North West, and other forms of electrical engineering which are carried on in the region include virtually everything from the production of heavy senerating plant, turbines, switchgear and transformers down to the manufacture of radio valves, cathods ray tubes, record players, triephones and domestic appliances. Several firms specialising in computers and advanced electronic equipment are well established and the production of components for the motor industry is of growing importance. In mechanical engineering the range of products is just as wide-including chemical plant and diesel engines, earth-moving equipment

food machinery, printing presses, chains and some muchine tools, espience firms—most 12. Well over a dozen espineering firms—most of them major national comparation—each provide more than 5,000 jobs in the North West. They include Englist Electric, A.E.I. Ltd., British Insolated Callender's Cables, Ferraul, the Flessey Group, Joseph Luos Edd., Philips Electronic and Associated Industries Ltd., the Stone-Platt group and Victors Ltd.,

and paper machinery, atomic power plant and

13. The vehicle industry has taken on a new importance in the North West with the establishment of the Ford, Vauxhail and Sandard Triumph plants on Merseyside. Previously, the region was a centre for the production of courmercial vehicles, particularly by Leyland Motors.



The sexa of the circles represents the total number of employees employed in each Ministry of Labour regions sextices abow the distribution between these broad industrial categories (see Appendix, 19ths 23)

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It also has important railway workshops and several factories producing locomotives. The aireraft industry in the region (which is included in the vehicles group) has been very dependent on military orders and has recently been affected by

the cancellation of the T.S.R.2

14. There are only two large shipbuilding firms in the North West-Vickers at Barrow-in-Furness and Cammell Laird at Birkenhead. Both specialion in the building of submarines, but also carry out other kinds of work. In addition, a number of smaller firms on Merseyside are engaged in

ship repairing. 15. The North West has long been a major centre of the chemical industry which originally developed in the region to exploit the mid-Cheshire salt deposits and to provide dyes for the cotton industry. The region now has nearly one quarter of the industry's total employment nationally and this is quite well distributed between different types of production. Bulk basic chemicals and dyestuffs remain of most importance: Manchester is the centre for dyestuffs production; chlorine, caustic soda and acids are manufactured at Widnes and Runcorn, and to a lesser extent at Fleetwood; and the production of salt and soda-based chemicals is concentrated in the Northwich area. I.C.I. Ltd. is the major employer in this section of the industry. Petrochemical production has developed in the postwar period, mainly at Carrington based on the Shell refinery at Ellesmere Port, and further development in this field seems probable. The processing of vegetable oils and fats is dominated by Unilever Ltd., who have major plants on Mercevoide and at Warrington. There is also some production of pharmaceuticals and paints in the region-particularly on Merseyside, at St.

Helens and at Ulverston in Furness. 16. Quite apart from its importance as a centre of production for the chemical industry, the North West also contains a high proportion of the industry's research facilities. Shell, I.C.I., Unilever and other firms all have major research laboratories in the region and close contacts have developed with related departments in the universities.

17. The processing of goods imported through the port of Liverpool played an important part in the development of the food industry in the North West. Indeed, Merseyside remains the largest flour milling centre in Europe. Unilever

are one of the region's leading employers in this industry also, which is related to their fat and vegetable oil processing interests so far as the production of margarine, edible oils and animal freeling stuffs is concerned; however, they are also involved through subsidiaries in the preparation and packing of frozen foods and of ment products. About one quarter of national employment in hiscuit production is in the North West and again Merseyside is the main centre. Among other major units in this industry are Heinz's canning plants in the Wigan area; Kellogg's factory in Manchester for the production of breakfast cereals; Tate and Lyle's sugar refinery in Liverpool; and several tobacco factories on Mersevoide, and in Ashton-under-Lyme, Hyde,

and Middleton 18. Of the remaining sections of manufacturing in the North West, the paper, glass, rabber, and metal processing industries are the most significant. The region's paper industry covers a variety of activities, including nearly one fifth of the country's paper and board production, several major wallpaper factories and (in Manchester) the printing and publishing of national newspapers. The glass industry is concentrated in St. Helens where the best known company is Pilkington Brothers Ltd. About one quarter of the rubber industry's total national employment is in the North West; Dunlops are the largest firm and have factories producing tyres, footwear and general goods in both Manchester and Liverpool, while Michelin's have an important tyre factory in Burnley. The region has only one large metal processing concern - the Lancashire Steel Company, in the Warrington area, much of whose production is used by the local wire industry; but Barrow-in-Furness has a small steel works and there are several plants processing non-ferrous metals in Manchester, Merseyside, Warrington and St. Helens.

RECENT EMPLOYMENT TRENDS IN MANUFACTURING

Table 6 shows percentage changes in manufacturing employment regionally and nationally between 1953 and 1963. Employment in the textile industry declined by well over one-third in the North West over this decade. Whereas in 1953 it provided rather more than one job in eight in the region, by 1963 it was providing less than one in twelve. In absolute terms, the loss of jobs in textiles amounted to 137,000 and this far exceeded the total decline in manufacturing employment, which was only 56,000. In other words employment in other manufacturing industries increased by about \$1,000 between 1953 and 1963. Growth was fastest in the paper and food industries, in the bricks, pottery and glass group and in engineering and vehicles. 20. But quite apart from textiles, employment in cight of the remaining twelve manufacturing Orders either grew more slowly or declined more rapidly in the North West than in Britain senerally between 1953 and 1963. Even in engineering, the North West's growth of just under 164 per cent was well below the national level of over 23 per cent. And of the four Orders where growth was faster in the region than nationally, two (the food industry and the bricks, pottery and glass group) showed a rapid increase in employment in the early 1950's but fell well behind the national rate after 1959; another (vehicles) was given a

substantial boost by Government intervention

which encouraged the motor industry to establish several new plants on Merseyside, while the fourth (the paper industry) still provided only 3 per cent of the region's employment in 1963, despite an increase of more than a quarter in its labour force over the decade. Thus it might appear as if manufacturing industry generally had been less dynamic in the North West than according to the contract of the contr

nationally. 21. However, it is possible (at least in theory) to distinguish between two alternative hypothetical explanations for the North West's poor performance. Firstly, it might have been the case that a majority of the individual firms in the region increased their demand for labour less rapidly than firms engaged in comparable types of production in other parts of the country. Since there is no evidence of a particularly rapid rise in labour productivity generally in the North West. it would follow on this bypothesis that firms in the region were tending to be less successful than their competitors elsewhere, and it would appear that the region must suffer from some peculiar handican which adversely affected most forms of industrial activity there. Alternatively, the North West's main disadvantage may bave been in the structure of its manufacturing employment.

Table 6 Estimate of percentage changes in employees in employment in manufacturing industry 1953-1963

| | 1953-1959 | | 1959- | 1963 | 1953- | 1963 | |
|---|-----------|---|---|---|---|---|---|
| | - | North West | Great Britain | North West | Great Britain | North West | Great Britain |
| Food, Drink and Tobacco Chemicals and Allied Industries . Metal Manufacture . Engineering, Electrical Goods and | : | +13-4 +10-8 + 1-8 | + 6·5 +10·7 + 1·1 | + 1·4 - 5·3 - 9·4 + 9·3 | + 3·1 - 0·8 + 3·2 +10·8 | +15·0 + 4·9 - 7·7 +16·4 | + 9-8 + 9-8 + 4-4 |
| Metal Goods Shipbulding and Marine Engineering Vehicles Textiles Leather, Leather Goods and Fur Clothing and Footwear | | - 3·8 + 4·4 -19·7 -20·6 -11·5 | - 6·0 +10·4 -12·8 -11·6 - 7·7 | -23·3 +12·7 -21·4 - 8·5 - 0·3 | -20-7 + 0-7 - 7-5 - 1-9 - 0-6 | -26·2 +17·7 -36·9 -27·3 -11·8 | -25·5 +11·2 -19·4 -13·3 - 8·3 |
| Cicking and Pootwear Bricks, Pottery, Glass, Cement, etc. Timber, Furniture, etc. Paper, Printing and Publishing Other Manufacturing Industries | - | + 7·0 -12·6 +13·5 + 3·6 | - 2·7 - 1·1 +15·0 +12·7 | + 2·9 + 3·1 +10·7 + 4·7 | + 4-3 + 0-5 + 9-1 +10-4 | +10·1 - 9·9 +25·7 + 8·5 | + 1-5 - 0-6 +25-5 +24-5 |
| Total Manufacturing Industries | | - 1.9 | + 4-2 | - 2-1 | + 3-3 | - 4-0 | + 7-6 |

NOTE:
These processings changes are calculated from estimates derived from samples which are subject to the
limited processing changes are calculated from estimates derived from samples which are subject to the
limited processing the processing of the processing of the processing of the processing of the processing the processing of t

where numbers employed in an industry are small, the percentage changes should be interpreted with great

In other words, individual firms in the North West may have been growing just as rapidly as ferms producing the same sort of goods elsewhere, but they may have tended to specialise in types of production which have nationally given rise to slower employment growth. Slow growing and declining sections of manufacturing may have made up a larger part of the North West's particular "mix" of industries than they have nationally. An explanation along these lines would suggest that the slow growth in manufacpering employment in the North West in recent wears was to a large extent a result of its past industrial history, and that an improvement in the growth rate in future will depend on the pace at which the region's industry proves able to diversify into more rapidly expanding types of

production. 22. Much more detailed regional figures of emplayment in individual industries than are at present available would be required before it would be possible to make a final assessment of the weight which should be given to each of these two alternative hypotheses. But such evidence as is available suggests that weaknesses in the structure of the North West's manufacturing industry have been by far the more important cause of the region's slow employment growth. 23. The case of the textile industry is a particularly good example of the way in which employment in the North West has tended to be concentrated in the slower growing (or declining) sections of manufacturing. In 1953, this industry accounted for only 4-7 per cent of total employment nationally, as compared with 12-9 per cent in the North West. While the North West lost 137,000 jobs in textiles between 1953 and 1963, the rest of Great Britain lost fewer than 50,000. If the industry had had the same relative importance in the North West as in the rest of the country and had declined at the same rate, the region would have lost only 8,000 jobs over the decade. But, in fact, not only was the textile industry of much greater relative importance to the North West, but also a high proportion of the region's textile employment was in the cotton section of the industry and it was this section which declined by far the most rapidly nationally between 1953 and 1963.

24. Similar factors seem to have affected the performance of other industrial Orders in the North West. Thus in the vehicles group the

region had not, until the last few years, shared in the rapid growth of the motor car industry, but had instead suffered from the decline in demand for locomotives and the gradual contraction of the aircraft industry. Within the engineering group, the region has had a bias towards the heavier end of the capital goods industries and several of the lighter, rapidly-growing, sections (for example scientific equipment, office machinery, domestic electric appliances and engineers' small tools) have accounted for a relatively small proportion of total employment. Similarly, the chemical industry in the North West has tended to specialise in the production of bulk hasic chemicals and soaps, fats, greases and paints, rather than fine chemicals, pharmaceuticals, synthetic resins and plastics, where employment has been growing most rapidly. A final example is the clothing industry, where the tailoring section, in which employment has been declining, is of greater importance in the North

West than nationally. 25. Substantial changes occurred during the 1950s in the structure of manufacturing in the North West. New firms which settled in the region hetween 1953 and 1963 are currently providine about 50,000 jobs. Of these, the motor industry projects on Memoyside are perhaps the most significant, and there is some evidence that they have begun to stimulate the development of industries supplying components. Ford's plant at Halewood, for example, purchases components from nearly 30 other firms in the North West. ten of which have recently carried out new projects in the region. There have also been sizeable developments in such industries as oil refining and petrochemicals, pharmaceuticals, light engineering, electronics and automation equipment. Moreover the process of change in the North West's indigenous industries has diminished the influence of those sections which are in decline. In particular the very rapid contraction of the cotton industry has considerably reduced its importance to the region's economy. As has been suggested, this industry may achieve greater stability in future, but even if it continues to contract at much the same rate as in the rest. the effect on employment in the North West as a whole will be much less marked. In 1953 nearly 41 per cent of manufacturing employment in the North West was in industrial Orders which declined nationally over the next decade, companed with just under 25 per coat in the rest of Great Britian. By 1985, these Orders accounted for coay a little over 30 per cost of the region's manufacturing employment, compared with just over 20 per cost in the rest of the country. The control of the country of the count

possibility that further absolute declines may still

occur cannot be completely ruled out.

PRIMARY INDUSTRIES

27. As Tahle 7 shows, the primary industries are no longer of great significance in the employment structure of the North West. Between them, mining and quarrying, and agriculture, forestry and fishing employ under 2 per cent of the region's lahour force, as compared with 5½ per cent in Great Britain.

22. Coal mining was, of course, one of the great transitional industries of the North West, but remained in the saily worked reserves have been established to the saily worked reserves have been established on pression concentrated on a reduced number of modern or modernished pits. It is now an industry of major local significance only in the Wigars[X]. Helens are and in North Est Lancastire. Employment fell by a third between 1933 and 1953 and 1818ety to go on declining;

hat the effect of this on the region as a whole will he no more than marginal.

29. The share of the North West's labour force which is encoord in agriculture is underestimated by Table 7 since a large number of self-employed occupiers work on their farms, in addition to their employees. Altogether there are just over 25,000 separate agricultural and horticultural holdings in the region, with about 50,000 occupiers and full-time workers, supplemented by about 6,000 part-time and seasonal workers. And it is estimated that the processing, marketing and nackine of the region's produce, and the provision and maintenance of agricultural machinery provide johs for another 80,000 to 90,000 people in the region's manufacturing and service industries. Broadly speaking, the land north of the Mersey carries the bulk of the notatoes, vegetables and glasshouse crops which supply the region's vast urhan market while the land to the south provides milk and dairy pro-

30. With improving techniques and increasing mechanisation, for region's fring agricultural coupur is being achieved with a decilining laboration of the property of the pr

Table 7 Employees in Employment in Primary Industries in the North West and Great Britain 1953-1963

duce.

| | | North West | | | Great Britain | | | |
|--|------------------------------------|--------------------------|-------------------------|------------------------------------|-----------------------|--------------------------|--|--|
| | Numbers employed 1963 (000s) | % of total employment | % decline 1953-63 | Numbers employed 1963 (000s) | % of total employment | % deciline 1953-63 | | |
| Agriculture, Forestry and Fishing Mining and Quarrying | ; 24 ; 45 | 0·8 1·5 | 30-0 33-1 | 554 682 | 2·5 3·0 | 24-7 22-4 | | |
| Total Extractive Industries | . 69 | 2.3 | 32-1 | 1,236 | 5-5 | 23-5 | | |

31. The fishing industry directly provides jobs for just under 2,000 fishermen, but a further 2,000 or so workers are employed ashrore in the industry and emiliary mides. Fleetwood is the third largest fishing port in England and Wales and the only distant-water port on the west coast, the main fishing grounds being off ficeland fits West of Southand and in the First Southand and the Irits South of the Southand of the Irits South of Irits South

THE STRUCTURE OF SERVICE EMPLOYMENT

32. In contrast to manufacturing, where the number of jobs in the North West declined by 4 per cent between 1953 and 1963, and the primary industries, where they decreased by nearly a third, there was considerable employment growth in the service sector in the region. Construction and the service industries as a group employed nearly 140,000 more people in 1963 than ten years earlier. Whereas in 1953 they provided 47 per cent of the North West's total employment (or a slightly smaller proportion than manufacturing), by 1963 their share of the total had risen to over half-nearly 52 per cent. Nevertheless the service sector was still of greater relative importance nationally in 1963, accounting for 56 per cent of total employment.

13. Table 8 shows the broad division of employ-

ment in services in mid-1963 both regionally and nationally between the various Orders of the Standard Industrial Classification. Only the transport and communications group is of ereater relative importance in the North West than in Great Britain as a whole-for the region contains two of the country's leading norts (Linnspool and Manchester) and several big rail and road haulage centres. The distributive trades, which are the largest source of service employment, provide as his a share of the region's total jobs as they do nationally, partly broause the North West appears to have relatively more small shops than any other part of the country2, but also because mail order firms, the Co-operative Wholesale Society and merchanting organisations are major employers, especially in Manchester

and Livespool.

34. But the remaining six survice groups are all relatively smaller in the North West than autionally, Offen the massive need for slam obscannes and general urban renewal, if it perhips wides only 6 per cent of the region is 1960, whereas the national figure is nearly 7 per cent. Mixed-nacous services are also a good deal less significant in the region than autionally, event though Livespool is a major center of the football pool firms and Blackpool, Morecambo, Southport and Other Countal towns are major foolfolds and other countal towns are major foolfolds and other countal towns are major foolfolds.

Table 8 Estimated numbers of carployees in employment in construction and the service industries in the North West and Great Britain, mid-1963¹

| | North V | /est | Great Britain | | |
|--|--------------------------|-----------------------|--------------------------|--------------------------|--|
| | Numbers employed 600s | % of total employment | Numbers employed 000s | % of total employment | |
| Construction | 175 | 6-0 | 1,540 | 6.9 | |
| Gas, Electricity and Water | 49 | 1.7 | 397 | 1·8 7·1 | |
| Transport and Communications | 229 | 7-8 | 1,606 | 7.1 | |
| Distributive Trades | 379 | 12-9 | 2,904 | 12-9 | |
| Insurance, Banking and Pinance | 62 | 2-1 | 603 | 2.7 | |
| Professional and Scientific Services . | 262 | 8-9 | 2,214 | 9-8 | |
| Miscellaneous Services | 220 | 7-5 | 2,064 | 9-2 | |
| Public Administration | 144 | 4-9 | 1,339 | 6-0 | |
| Public Administration | 144 | | 1,000 | 6-0 | |
| | 1.519 | 51.9 | 12.667 | 56-4 | |
| Total Service Industries | 1,319 | 31.9 | ******* | 20.4 | |

¹ These estimates are subject to the same qualifications as those mentioned in the notes to Table 5.

be included in these figures of employees.

² The evidence for this, which is drawn from the Censuses of Distribution, is discussed below in Chapter 5, paragraph 5.
3 However, many landlades and others who work in the holiday trades are self-employed and will not therefore

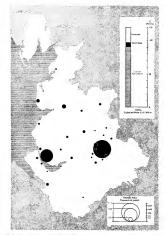


Fig. 16. Rateable value of commercial offices, 1964
The nateable value of commercial offices at April, 1964, for local authority areas with more than \$15,000 office rateable value is represented by the area of the circles. In the case of Manchester, Liverpool and Birkenhead, contiguous areas, each baving more than £15,000 office rateable value, have been grouped together.

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35. Rattable values provide one measure of the commercial importance of offices in the North West's economy. (See Figure 16.) The North West has 5-4 per cent of the total office rateable value in England and Wales and no other region outside London and the South East has so large a share of the national total. Manchester and Liverpool rank as first and third in importance among the main provincial office centres outside London, and almost entirely because of their nosition the Mersey division accounts for over four fifths of the total rateable value of offices in the region. However, the county towns of Preston and Chester also have above average concentrarious of offices and have both increased in importance as office centres in recent years. In addition, offices are prominent in the local economy in Warrington, Wigan and Runcorn. Nevertheless, professional and scientific services, public administration, and insurance, banking and finance together account for only just under 16 ner cent of the North West's total employment. compared with nearly 181 per cent in Great

GROWTH IN SERVICE EMPLOYMENT

Britain.

36. Even in construction and the service industries, employment grew more slowly between 1953 and 1963 in the North West than in Britain generally—by just over 10 per cent as against 15 per cent. Only in Scotland was employment growth in the service sector slower. One importerous the service sector slower. One important asplantion of the shower growth was the greater relative importance of the transport and greater relative importance of the transport and was the only service Order where the size of the labour force was contracting during the decade in the country as whole. But as Table 9 shows, none of the expending service industries increased their employment as rapidly in the North West as in the country generally, and both in the past, certificated and the size of the size of the services the number of yobs in the region actually the size of size of

silvations of the Nave been some signs of an improvement in the North West's relative position in recent years. Between 1959 and 1953 professional and scientific service—the most rapidly espanding group in the country as a maionally. The growth of employment in public administration was also at a rate above the radional serverage in this period. And in construction, the region's employment increased much facter after 1959 and was indeed growing as

38. But not all the evidence points in the same direction. In the distributive trades, for example, the rate of employment growth in the North West fell well behind the national average after 1959, although it had been slightly above the national level earlier; while in transport and communications the number of jobs fell more sharply in the region than nationally after 1959,

Table 9 Estimate of percentage changes in employees in employment in construction and the service industries 1953-1963

| | | 1953-1959 | | 1959 | 1963 | 1953 | 1963 |
|---|-------|---------------|------------------|---------------|------------------|---------------|------------------|
| | | North West | Great Britain | North West | Great Britain | North West | Great Britale |
| Construction | | + 1.2 | + 4-5 | +11-8 | +11-7 | +13-2 | +16-8 |
| Gss. Electricity and Water | - 1 | - 2.2 | + 0.4 | + 1.3 | + 6-1 | - 0.9 | + 6-1 |
| Transport and Communications | | - 2.6 | - 3-3 | - 5.8 | - 1.2 | - 8-2 | - 4-5 |
| Distributive Trades | | +14-6 | +14.5 | + 3.5 | + 7.8 | +18-6 | +23-4 |
| Insurance, Banking and Finance . | - 1 | +15-4 | +18-9 | +12-2 | +14.2 | +29-5 | +35-5 |
| Professional and Scientific Services | - 0.1 | +15.7 | +19-6 | +19-2 | +15.5 | +37-9 | +38-2 |
| Miscellaneous Services | | - 3-9 | - 0.2 | + 1.0 | + 5-6 | - 2.9 | + 5-4 |
| Public Administration | | - 4-6 | - 1:3 | + 9.2 | + 7.9 | + 5.0 | + 6.6 |
| Total Construction and the Service Indu | | + 4-3 | + 6.4 | + 5-6 | + 8-1 | +10-2 | +15-0 |
| | | | | | | | |

¹ These estimates are subject to the same qualifications as those mentioned in the note to Table 6.

in contrast to the period 1953-59 when the rate of decline was more moderate in the North West than in the country as a whole. Moreover, rateable value figures show that the North West did not attract its proportionate share of the new office development which took place in Great Britain between 1958 and 1963, largely because there was little new development in Liverpool. Whilst Manchester, which had 3-1 per cent of national office rateable value in 1958, acquired 3-8 per cent of the increase which took place in the next five years, Liverpool, with 2-5 per cent of the national total in 1958, was responsible for only 0-9 per cent of the increase. Manchester has therefore significantly strengthened its position as an office centre and now has about 9 million square feet of office floor space (compared with Liverpool's 7-2 million).

39. Further research could usefully be undertaken into the reasons for pest variations in the rate of employment growth in service indestries in the North West and into the prospects for future growth. But it seems reasonable to assume that the number of people working in these industries in the region will continue to increase steadily.
EMPLOYMENT TRENDS WITHIN THE REGION

40. Different parts of the North Net make very varied contributions towards the concenies life of the region generally. Some areas rely very heavily on certain sections of manufacturing for their employment, while in others the service industrial productions. The fortunes of some industrial productions. The fortunes of some very charge of the content of the content of the very charge with the proportiey of the content on the very charge of the content of the North West become of the content of the North West become of the very content of the North West become of the very content of the North West become of the North West because the North West be

tomany, and al. Variations in the experience of different subregions have been particularly noticeable in the past deede. For the purpose of analysing employment trends, the North West has been divided into twelve sub-regions which very broadly form separate labour catchment areas (though in a densely populated region like the North West, boundaries of this kind are, of course, bound to be somewhat arthrary.) Figure

17 shows these sub-regions and Figure 18 illustrates the changes in total employment which occurred between 1953 and 1963.

42. Employment growth in recent years has been fastest in the areas to the wost of the region, along the coast. The rate of growth has been highest in the Fylde (where it exceeded the average for Great Britain as a whole) and in the Lancaster? Morecambe and Southport/Ormskirk areas. But the labour forces in these three sub-regions remain comparatively small. In aboutle terms the main comparatively small. In aboutle terms the control of the sub-regions remain comparatively small. In aboutle terms the course of the sub-regions of the sub-region where the sub-regions working population and which also has bad a rate of growth well over three times the regional average.

4. By contrast, in three sub-regions which cover a large part of the region, lying mainly to the north and east of Manchester, but stretching also at far westrewn's a Person and Chorley, employment declined between 1953 and 1964, and 1964 are strongly affected and lost rather more than one schools affected to the contrast of the High Path wheregoin, to the east and couth-east of Manchester, was only slightly better, and its employment was wirtually stretch the contrast of Manchester, was only slightly the contrast of Manchester, and its employment was wirtually slightly and the contrast of Manchester, and its employment was wirtually slightly and the contrast of Manchester, and its employment was wirtually slightly and the contrast of Manchester, and the complex of the contrast of the con

44. In the other main sector of the North West, taking up the southern and central part of the region, and including the southern half of the region. And including the southern half of the work of the region and the region and the region and the region as well as much 9G. Warrington and St. Höfere as well as much 9G. The toward is a region of the region as a well as much 9G. The region as a wall as much 9G. The region as a reason of the total region as a reason of the region as a whole.

45. As might be expected, this general pattern of employment growth and decline broadly corresponds with the pattern of population growth and decline within the region. Population bas increased most rapidly on Merseyside and in other costal areas, in the southern firings of the Manchester conurbation and in Cheshire; and it is in these areas that employment growth has been most marked. Similarly, population has decilied in the northern part of the Manchester



Comprehensive employment statistics are not available for areas smaller than Ministry of Labour regions. The sub-dividious shows are aggregations of Ministry of Labour local office areas for which some estimates have been specially perpand for Seedy purposes

conurbation and in the towns to the north and east, especially in North East Lancashire: and here the number of jobs has also fallen. In Furness, there has been little or no employment growth and population has fallen slightly. There are a few marginal cases where population and employment trends seem to diverse-for example the Preston area has experienced rapid population growth, but is included in the Mid-Lancashire sub-region, where employment has declinedbut most of these are probably more apparent than real and merely reflect the different bases on which the two sets of statistics have been collected. 46. On Merseyside, however, although employment growth has been very rapid by North West standards, it has not been able to keep pace with the even faster rate of increase in the area's labour force. Despite substantial outward migration, there has been a persistent problem of high unemployment and the area is currently listed as a development district under the Local Employment Acts. (The situation on Merseyside is examined in detail in an appendix to this report and only a brief summary is given here.) 47. Manufacturing industry which was already established on Merseyside before 1953 provided hardly any additional employment in the following ten years, and if no new industry had come into the area during this period, there might have been a fall of 13,000 jobs in the manufacturing sector. As it was, rather more than 30,000 new jobs were provided, mainly in engineering and in the motor, food and paper industries; and over the decade as a whole manufacturing employment grew by 7 per cent. However, there was a slight fall in 1959-63, mainly because of a share contraction in thin-renairing. Menmuhile the rate of growth of amployment in the service industries (which as a group provide over 60 per cent of the area's jobs) was well below the national average between 1953 and 1963 and was particularly low in 1959-63. Much of the explanation for this slow growth is to be found in the important part which the transport and communications industry plays in the economy of Merseyside, where the industry's labour force has declined faster than has been, the case nationally. But employment in construction also declined sharply between 1953 and 1959; and its rate of growth subsequently was below the

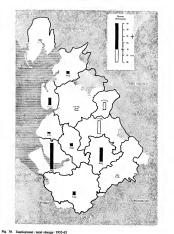
national average and did not quite make good the earlier losses. In total, employment on Merseyside expanded almost as rapidly as in Gress Britain as a whole between 1953 and 1959, but its rate of growth was less than half the national average between 1959 and 1963.

average between 1999 and 1963.

48. The rate of unemployment remained at around two and a half times the national average rate throughout the deades. Heavy and pensistent rate throughout the deades. Heavy and pensistent the control of the deades are throughout the control of the deades. Heavy are the sections. The unemployed on Mexicopies the national average actions. The unemployed on Mexicopies the deader of the beyonger than in the country generally and to be younger than in the country generally and to the sound as the same as the action of the deader of the same as the action allowed the same as the action and the same as the same and the sam

49. By contrast with Merseyside, those parts of the region which have been most affected by the decline of the cotton industry have not suffered from persistently high unemployment in recent years. But their populations have continued to fall, with outward migration in some places reinforcing a tendency for deaths to exceed hirths because age structures have become unbalanced. North East Lancashire lost nearly 19,000 jobs in textiles between 1953 and 1963, Mid-Lancashire over 23,000 and the northern part of the Manchester conurbation1 nearly 62,000. In all three areas there was considerable growth in other industries and services, but this was insufficient to offset the decline in employment in textiles. In the High Peak area, the loss of jobs in textiles amounted to about 4,000 and this virtually matched the growth in other employment. If these four sub-regions are set on one side, the decline in textiles between 1953 and 1963 cost the remainder of the North West less than 30,000 jobs altogether. 50. The textile industry is a major employer of

explanation for this above growth is to be found formed below. And, except in the High Texa communications industry plays in the conceasy affected than men by the changes of the number of the concess and the concess of the concess and the concess that the concess and the concess the concess that the concess concess the concess that the concess were the concess to the concess of the concess the concess that the concess concess the concess that the concess concess the concess that the concess that the concess concess the concess concess the concess the concess concess the concess concess the concess concess concess the concess conce



The heights of the column are proportional to the changes in estimated numbers of employees employed 1953-63. Percentage change over the period is given in figures (see Appendix, Table 37)

more than 3 per cent for men, while in Mid-Lancashire the number of men in employment actually increased by over 2 per cent, while jobs for women fell by almost 7 per cent.

51. In all these four sub-regions the structure of employment has become a good deal more diversified over the nast decade. In all of them, there has been growth in the service industries, especially in the distributive trades and professional and scientific services. And there have also been developments in other forms of manufacturing-most noticeably in Northern Manchester! where there have been sizeable increases in employment in engineering, vehicles, clothing and footwear, the food and paper industries and the "other manufacturing" group; and in North East Lancashire where employment in engineering more than doubled between 1953 and 1963. However, only in Northern Manchester (where, despite a sharp contraction in coal mining, total employment increased very slightly between 1959 and 1963) have there been clear signs of a slackening in the rate of overall decline in the last few years. In all four sub-regions, the service sector remains comporatively small accounting for under 35 per cent of total employment in North East Lancashire and for no more than 44 per cent in Mid-Lancashire, where its share of the total is highest. And in all four, textiles still provide an important part of total employmentalmost 30 per cent in North East Lancashire, nearly a quarter in the High Peak area and in Northern Manchester, and not quite 15 per cent in Mid-Lancashire. There may therefore be some further falls in employment in these areas in future. But paradoxically continued outward migration may check expansion of some industries, hy causing a shortage of suitable labour. 52. Employment trends in the area of moderate

22. Chippolyhadri trethis in the dress or moderflate growth in the occural and southern part of the properties of the control and southern part of the properties of the control of the control of the South Manchester sub-region includes teach to commercial center of the countrol of the of its most important industrial areas, especially important centre of the engineering industry and the Trafford Park estate. It is a particularly important centre of the engineering industry and has well over one-brider of all the North Weat's engineering employment. But employment growth in this industry between 1953 and 1963 growth in this industry between 1953 and 1963 and the properties of the sub-region of the properties of the properties of the properties of the properties of the growth in this industry between 1953 and 1963 and the properties of properties properties

was at a rate somewhat below the regional average (and at not much more than half the national average) and was not nearly sufficient to offset a substantial loss of jobs in the textile and clothing industries and in vehicle production. Desnite some growth in other sections of manufacturing (especially the paper and chemical industries) manufacturing employment as a whole fell by nearly 7 per cent in these ten years. This decline principally affected female employment; jobs for men in manufacturing increased slightly over the decade and growth was quite rapid between 1959 and 1963. Even in the case of female employment, however, rapid growth in service industries more than offset the loss of jobs in manufacturing. The expansion of employment in the service sector as a whole was at a rate not far short of the national average, and was particularly rapid in construction, public administration, incurance, hanking and finance and professional and scientific services. The general effect of these changes was to produce an acceleration in the growth of the South Manchester area's total employment after 1959.

53. Both in the South Lancashire and Chechire sub-regions female employment grew much more rapidly than male employment. Indeed, jobs for men increased by only 1 per cent in Cheshire and hy even less in South Lancashire. In South Lancashire (which includes Wigan, Warrington and St. Helens) there was a sharp contraction of employment in mining, and some loss of johs in manufacturing after 1959, following a period of strong expansion earlier. On the other hand, the service sector, which was tending to decline between 1953 and 1959, has grown very rapidly in more recent years, although it still provides only just over 40 per cent of the sub-region's employment, By contrast, the Cheshire sub-region has more than half its total employment in services and this sector showed continued expansion throughout the decade. But employment in manufacturing was static and there was some loss of johs in both agriculture and mining and quarrying. 54. In the three sub-regions of fastest employ-

ment growth—the Fylde, and the Lancaster, Morecambe and Southport/Ormskirk areas more than two-thirds of total employment is pro-

1 This sub-region includes towns like Bolton, Bury, Rochdale and Oldham as well as some of the northern suburbs of Manchester itself.



Fig. 19. Development districts: sid-1965
The map shows the Ministry of Labour local office areas within which assistance may be given under the Local Employment Acts 1969 and 1963 for projects likely to create more employment. Such assistance may also be given in acres within travel to work distance of the development districts and in places which have "overspill" agreements covering the houstage of opatition from development districts.

sided by the service industries. This is a reflection of their status as sholiday resorts and places for retirement. But although the service seekers respecially the distributive tracted and professional and scientific services, accounted for much of their employment growth between 1953 and 1965, manufacturing about made a uneful contribution indeed, manufacturing exposure the created by as much as a quarter in the contribution of their employment and their contributions of the

Shadary, engineting and ventors, so the only part of the North West which is currently listed as a development district. Although the numbers are small by comparison, the rate of unemployment has remained persistently high in reconverse, despite the fact that several new firms have

established themselves in the area since the war. Vickers shippard and engineering works as Barrow remain the basis of the economy of Furness and shipbuilding and marine engineering provide over a quarter of the area's jobs Retween 1953 and 1963, there was a substantial decline in employment in metal manufacture flargely the result of the closure of the local ironworks) and also in construction. Employment in services increased quite considerably, but the rate of growth fell away sharply after 1959. Such expansion as there has been in total employment in the area has provided jobs for women rather than men. Male employment in Furness declined by over 4 per cent between 1953 and 1963. hur female employment increased by over 17 per

5 The prosperity of the Region

The last chapter analysed the economy of the North West in terms of the distribution of emplayment between the various sectors of industry and the trends of growth and decline which have occurred during the last decade. A number of other economic indicators relating to the North West are available and go some way towards providing a more detailed understanding of the way in which the prosperity of the people of the region has been affected by the performance of its economy.

OUTPUT PER HEAD 2. In Britain generally in recent years, the nonulation of working age has been growing more slowly than the total population. This tendency has been particularly marked in the North West. Children under the school leaving age and old people above the normal age for retirement both account for a slightly higher proportion of the North West's population than they do nationally. Moreover, between 1951 and 1961 the remaining section of the population (i.e. between 15 and retiring age) decreased in numbers by 2 per cent in the North West in contrast with an increase of rather less than 2 per cent in Great Britain. In 1961 a higher proportion of the region's population in these main working age groups was actually in the labour force, so that the number of employees in employment increased by 1-8 per cent over the decade, but population bad grown rather more rapidly, by 2-9 per cent. In Great Britain as a whole the number of employees in employment increased faster than total population, by 8-6 ner cent as against 5-5 ner cent. Or in other words in the North West in contrast to Britain senerally, there has been a tendency

for the members of the working population to have to support an increasing number of dependants.

3. There are no comprehensive regional data of output, and thus none of output per employed person. However, the Censuses of Production and Distribution provide some limited evidence about labour productivity in the North West. 4 The Census of Production provides information about net output (value added, gross of depreciation) in manufacturing industry for 1954 and 1958. In both years net output per employee in the North West was 95 per cent of the average for Great Britain. This suggests that the output of the average worker in the region tended to be relatively low in the fifties, but that it was increasing as rapidly as the national average. Differences between the structure of manufacturing industry in the North West and in Britain generally were probably by far the most important reason for the region's lower level of output per employee. For example, in the textile industry net output per employee in Great Britain was only about three quarters of the average for all manufacturing industry², and in the cotton section of the industry it was almost certainly even lower. The changes in the structure of industry which have taken place in the region since 1958 may therefore have brought not output per employee closer to the national average. More recent information, which will eventually be provided by the 1963 Census of Production, will

provide a basis for testing this theory. 5. The Census of Distribution does not provide regional net output figures, but figures of turnover per person engaged in retail trade can be used as a rough measure of output per head-The data for 1957 and 1961 show that turnover

^{1 83} per cent in 1954; 72 per cent in 1958.

per person employed! in retailing in the North West was about 93 per cent of the average for Great Britain in both years. Again, this suggests relatively low productivity, but growth at about the national rate. Low turnover per person employed in the North West may be associated with the region's large number of retail outlets. There were nearly 92,000 retail establishments in the North West in 1961 or one for every 72 people living in the region (compared with a national average of 88 people per shop). Sales per shop averaged just under £12,000 in the North West. and this was also the lowest figure for any of the regions2. In other words, shops in the North West tend to be more numerous, but smaller, then in Britain as a whole.

INCOMES AND EARNINGS

6. Such information as is available suggests that below-serage output per head in the North West may be reflected in incomes and earnings which are slightly less than the average for the United Kingstom. The most comprehensive data of income per head are the Inland Revenue figures of employment income and total not income before tax. These are given in Table 10.

Table 10 Income per tax unit in the North West as a percentage of income per tax unit in the United Kinedom

| | Employment income | Total net income |
|---------|-------------------|------------------|
| 1949.50 | 97 | 95 |
| 1954,55 | 98 | 98 |
| 1959 60 | 96 | 97 |

NOTE: These statistics count CHAI Servants are consuct.
About 7 per cent of total income is also omitted, including national assistance and national insurance
benefits and incomes too small to be reviewed for tax
purposes. A married couple is regarded as one "tax
unit", as is a single (or widowed) man or woman.

Total not income includes "uncarned" income from dividently, pensions etc., and the figures of employment income therefore give a better indication of incomes derived from work in the region. They suggest that incomes in the North West were slightly below the average for the

United Kingdom in the fifties and did not move

significantly in relation to it.

7. The Crasus of Production for 1958 sho provides some information about average earnings wide some information about average earnings in the North West in that year unmounted to lear under 97 per cent of the average for Great Bristian. This corresponds quite closely with the Ministry of Labour's figures of earnings of runs annual workers which show average weekly amount of the North West State of the United Kingdom average in the proint of 1960 at 1975.

8. It is relevant in considering all these Igans, that the high keed of eartings in London (which at least in part neflects higher thrings cost them) as a considerable influence on the national has a considerable influence on the national has a considerable influence on the national season of the considerable influence of the national figures for 159-60 are revorked with the London and South Eastern region considerable than everage employment iscomes in the North West is almost exactly the same as the remaining "suitous feetings in the North West is a waitable and it is therefore impossible to any low real incomes in the North West compare with those in other parts."

North West compare with those in other parts of Thissis.

The North West is a waitable of the North West is a second of Thissis.

whole may well conceal considerable differences in the level of earnings between various parts of the region. For example, the Census of Production in 1958 showed that average carnings in the textile industry in Great Britain were only about 80 per cent of the national average for all manufacturing industries. Average carnings in those parts of the North West where the cotton industry is predominant have therefore probably been substantially below the regional, as well as the national, average, Conversely, earnings in other parts of the region may have compared much more favourably with the national average. 10. However, it appears that in the region as a whole (and perhaps especially in the cotton towns) there has been a tendency for any shortfall in the general level of earnings by comparison with the national average to be compensated for by the fact that a higher proportion of the North West's total population has been at work. The Household Expenditure Survey for 1953-54 showed that, although household incomes in the

¹ The self-employed are included in this calculation.
2 See Table 18 in the Statistical Appendix.

² See Table 18 in the Statistical Appendix.

North West (including "unearned" income) divided by the number of workers in the household were on average about 4 per cent below the level for Great Britain, average household incomes and household incomes per person were both about 1 per cent above the average for the country as a whole.

11. But the employment trends of rocest years seem to have brought about an interesting change in the North West's relative position. Family separations arrayed with for 1961-63 schweet that since 1954 in the 1962-1964 in 1962-19

ACTIVITY RATES

12. In addition, figures for activity rates provided effect evidence that the proportion of the North West's total population who are at work as employees in no longer so much higher than the average for Great Britain as it used to be. Nevertheless, as Table 11 shows, activity rates in the region remain well above the national average.

Table 11 Activity rates in the North West as a percentage of those for Great Britain

| 963 | 1963 | 1953 | |
|-----|------|-------------------|---|
| | | | Males |
| | 105 | 118 | Aged 15-24 |
| | 103 | 102 | 25-44 |
| 101 | 101 | 104 | 45-64 |
| 97 | 97 | 93 | 65 and over |
| | | | Females |
| | 100 | 108 | Agod 15-24 |
| 107 | 107 | 123 | 25-44 |
| 110 | 110 | 115 | 45-59 |
| 100 | 100 | 114 | 60 and over |
| | | 108 123 115 | Females Agod 15-24 25-44 45-59 |

The activity rate in the North West for men over the age of 15 averaged about 80 per cent between 1953 and 1963, and that for women over 15 nearly 42 per cent. The corresponding figures for Great for women. Since the self-employed are excluded from these activity rate calculations, the higher figures for the North West cannot be taken as giving a precise measure of the extent to which a larger proportion of the region's population of working see has, in fact, been at work. But in any case the differential between the regional and national activity rates for women is so wide that there can be no doubt at all that it has been a good deal more common for women to go out to work in the North West than it has in the country as a whole. Moreover, figures derived from the 1961 Census show that even when account is taken of the self-employed, the "economically active" section of the population in the North West in that year was relatively larger than in any region except the West Midlands.

13. The differentials between activity rates for the North West and for Great Britain have gradually been becoming smaller in recent years. The activity rate for men over the age of 15 in the North West remained fairly constant between 1953 and 1958, while it was tending to increase gradually in Great Britain; between 1958 and 1963 both the regional and the national rate fell. but the fall in the North West was more marked The relative decline in the North West was lengely confined to two see groups-15-24 (where it is possible that part of the explanation may lie in the fact that the North West has been catching up in recent years with the national average in the proportion of its young people staying in full time education beyond the school-leaving age) and 45-64 (where the activity rate has been rising nationally, but has remained stationary in the Morth West)

North West).

14. For women, the contraction of cotton, and to a baser extent of the dothing industry, was clearly the main reason for the abarper relative clearly the main reason for the abarper relative cover.15 rate in the region tended to increase in lime with the national average from 1935 to 1937, but then fell again slightly, while the national recommend to increase. The North West lost ground in all age groups, but most noticeably in the 23-44 group in 1939 the artificial relationship in the 23-44 group in 1939 the artificial relationship in the 23-44 group in 1939 the artificial relationship in the 23-44 group in 1939 the artificial relationship in 1930 the North West's rate was call ill one of the bidsets but was

Britain were 77 per cent for men and 37 per cent West's rate was still one of the highest but

1 The "sativity rate" is here taken to mean the number of employees—both employed and unemployed—
in a centifoliar near room currended as a necreasize of the total home possible on that see group. More

detailed figures for the North West are shown in Tables 31-33 of the Statistical Appendix.

lower than that in the West Midlands and the three South Fast regions.

EMPLOYMENT FOR WOMEN

15. Between 1953 and 1963, the character of female employment in the North West changed very considerably. In 1953, 52 per cent of women workers were engaged in manufacturing industry; and just under 47 per cent in service industries.1 In 1963, only 43 per cent of women workers were employed in manufacturing and 56 per cent were in services. Employment in manufacturing for women had fallen by nearly 141 per cent (about 80 000 jobs) compared with a national increase of 2 per cent. There were 95,000 less women employed in the textile industry alone and 10,500 iess in clothing and footwear. An additional 96,000 women were employed in services-an increase of nearly 19 per cent over the decade. compared with the national average of 22 per cent. Nearly 44,000 extra women were employed in the distributive trades; just over 48,000 more in professional and scientific services; and nearly 10 000 more in insurance, banking and finance, 16. This change in the character of employment for women in the North West seems likely to continue for some time yet. Any further fall in employment in textiles is likely to affect women more than men-indeed if past trends continue. roughly two jobs for women will be lost for every one for a man. (In any case, about one fifth of

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in services is likely to go on growing.

MALE EMPLOYMENT 17. No such striking change has taken place in the character of employment for men in the North West, Between 1953 and 1963 manufacturing's share in total male employment remained almost unchanged at about 48 per cent, while the share of services (excluding construction) grew only from about 384 per cent to nearly 40 per cent. Employment for men in manufacturing increased by 2-8 per cent (compared with the average for Great Britain of 10-6 per cent) and in services by 3-2 ner cent (where the average for Great Britain was 9-2 per cent). There have, of

course, been substantial changes within these groups; in particular the engineering, vehicles and paper industries, the distributive trades, and professional and scientific and miscellaneous services have grown, while the textile and shinbuilding industries, coal mining and transport and communications have declined.

INCOME PER HEAD 18. There is therefore some evidence which suggests that, on average, families living in the North West have slightly smaller money incomes than those in Britain generally, and that rather more members of the population are at work in the moion than in the country as a whole. And there are clear signs that average income per head of total population is not increasing as rapidly in the North West as nationally. The evidence of the Family Expenditure Survey confirms what in any case might have been suspected. For the working population has grown more slowly than total population and activity rates have tended to decline relative to the national average. At the same time incomes and earnings certainly do not seem to have increased much faster in the North West than in Britain generally,

19. On the other hand, the very fragmentary evidence which is available about expenditure in the region does not appear to show much sign of sluggish growth. Certainly, the Family Exnenditure Survey showed the average expenditure the women employed in the cotton industry are of households in the North West to be slightly now over \$5 and the industry has found it below the national average in 1961-63, whereas it difficult to recruit younger women in recent years.) At the same time employment for women had been slightly above in 1953-54. But in retailing (which accounts for about a half of personal expenditure), turnover per head of population in the North West seems to have increased faster than the average for Great Britain: in 1957 turnover per head in the North West was only 90 per cent of the figure for Great Britain as a whole but hy 1961 it had risen to nearly 94 per cent. As far as car ownership is concerned, there was one car for every sixteen adults in the North West in 1954 and one for every twelve adults in Britain; by 1963 there was one car for every seven adults in the region and one for every five and a half nationally. Further research into the relationship between income growth and expenditure

patterns in the North West might well be worth

undertaking.

¹ Excluding construction, where women form a very small part of the labour force.

6 Employment prospects

Chancer 3 has shown that if there were to be no further net migration away from the North West, the region's population might increase by about 930,000 between 1964 and 1981. Even if net outward migration were to continue over that period at the same rate as was experienced in 1956-64 the North West's population might increase by nearly 800,000. The growth of employment in the region will be one of the major factors determining the extent to which the North West will be able to hold the natural increase in its population. If employment opportunities fail to expand as rapidly as the increase in the region's labour force, the level of unemployment in the North West is likely to be persistently higher than the average in the country as a whole, and net outward migration will reappear, and may even accelerate, as workers stok jobs elsewhere. (Even if full employment were maintained in the North West, other factors-housing conditions for example-might lead to outward migration. The region's housing problems and the need for improving its general environment are considered

later in Part Five of this report). 2. The purpose of this chapter is therefore to try to look ahead in order to see whether on existing trends population growth and employment growth are likely to be in balance in the North West over the next fifteen years or so. In the present state of knowledge and techniques an exercise of this kind cannot be expected to provide other than very tentative conclusions, but certain specific qualifications need to be made. The population and migration assumptions and the projection of employees in the North West used in this chapter are provisional and should not be regarded as official. Much work is currently being done on population and employment forecasting, particularly in connection with the preparation of the National Economic Plan. In due course, official projections, together with the assumptions on which they have been based, will be published. Meanwhile, bowever, it has not been possible to wait for these later data and less reliable data have had to be used.

3. The calculations presented in this chapter should not be regarded as in any way forecast should not be regarded as in any way forecast should not be regarded as in the North West. They are merely indeed to show what compensus would follow from various hypotheses the regarded frame colourable development. Some there is the contract the con

MANPOWER RESOURCES

4. The increase in the number of people seeking work in the North-West in the percedup to 1981 will naturally be considerably less than the growth in the total population. The first step in estimating the likely growth in the supply of the section of the population are likely to continue the section of the population. It is then accessary to make assumptions about the proportion of the population again 15 and over who will actually be available for employment at various points in the

 As Table 12 shows, in 1963 the North West's population included 2-38 million men aged fifteen and over and 2-71 million women in that age group. Table 12 House Population in the North West, aged 15 years and over

Thousands Projected increases over 1963 Acrosi WD5 Migration 1971 1981 1963 1981 + 99 ±289 2 383 443 +124Males - 60 +216 -27 + 6 Females +505 +159Total 5.094 +16 ± 130 -

If it could be assumed that migration would have no effect on the North West's population after 19631, there would probably be an increase of almost 160,000 by 1971 in the number of people aged fifteen or over living in the region-almost 100,000 men, but only about 60,000 women. Between 1971 and 1981, there would be much bigger increases, of about 190,000 men, and just over 155,000 women. On the other hand, if net migration away from the North West continued. the increases to be expected in the population of working age would naturally be smaller. If the migrationary trends which occurred in the intercensal period 1951-61 continued throughout the years between 1961 and 1981, the number of men over 15 living in the North West would be likely to increase by less than 45,000 between 1963 and 1971 and only by about a further 80,000 between 1971 and 1981; while the number of women over 15 would probably actually fall by over 25,000 between 1963 and 1971 and increase by only a little over 30,000 between 1971 and 1981 (or in other words the number of women aged 15 or over in the North West would be virtually the

same in 1981 as in 1963)².

6. In 1963, 79-2 per cent of men aged fifteen and over in the North West were actually in employment³ or were registered as unemployed. The comparable figure for women was 41-2 per cent. Both for men and for women these activity rates

50

were a good deal higher than the rates for Greet heritain as a whole, but in both cases the differential between the regional and national figures had arrowed considerably since 1981. The Ministry of Labour has found that there is evidence that migration between regions is a prime cause of migration between regions is a prime cause of with outward migration leading to decline relative to the national average in the region affected. Account has been taken of this fact in making sumprises about the future behaviour of

activity rates in the North West. 7 It has been assumed, firstly, that if the North West were to be unaffected by migration after 1963, activity rates in the region would continue to be above the national average throughout the period up to 1981 by the same amount as they were in 1963. (In other words, the assumption is that there would be no further change in the differentials between regional and national activity rates after 1963.) At the other extreme. it has been assumed that if the North West continues to be affected by the migrationary trends of 1951-61, activity rates in the region will continue to decline relative to the national average at the same pace as they did between 1951 and 1961. Finally, a third projection has been made, based on the population figures which provide for continued migration, but using the activity rates which assume no further change in regional differentials. Thus three projections of the supply of labour in the North West have been made in all, on the following bases: Projection A-No migration after 1963, and no

change in the differentials between regional and national activity rates after 1963. Projection B.—Migration trends continue as in 1951-61, but no change in the activity rate

1951-61, but no change in the activity rate differentials after 1963. Projection C—Both migration and trends in

activity rate differentials continue as in 1951-61. All three projections have made use of figures for future national activity rates calculated on the

1 This assumption implies not only that there would have to be no net gain or loss of population to the North West after 1963 as a result of migration to or from other regions or countries, but also that any gross movements which took place would have absolutely no effect on the age and so structure of the region's

opopulation.

The migration assumption used in these calculations is not the same as that used in Chapter 3, and its effect is to produce a high figure for future migration. The projections in this chapter and those described in Chapter 3 are not therefore comparable.

3 "Employment" here means employment as employees. Employees, the self-employed and members of H.M. Forces are excluded. basis of the official projections of the working population which were published in the Ministry of Labour Gazette for January, 1965.

8. The results of these projections are summorised in Table 13, Projection A suggests that if the North West was unaffected by migration ofter 1963, the supply of labour in the region might increase by nearly 75,000 in the neriod 1963-71 and by about a further 150,000 between 1971 and 1981. On the other hand, Projection C. shows that if migrationary trends continued and activity rates in the North West went on deolining relative to those in Great Britain, there might be a fall of 100,000 in the region's labour from between 1963 and 1971 and a further decline of about 110,000 between 1971 and 1981. The intermediate set of assumptions used in Projection B (continued migrationary trends, but no further change in activity rate differenriols) produce a slight fall in the labour symply in the North West between 1963 and 1971 and a slight increase between 1971 and 1981, the net result of which would be to leave the position in 1981 virtually unchanged from that in 1963. All three sets of projections suggest that the number of women seeking employment in the North West may increase less (or decline more) than the number of men, especially in the immediate fature. Even the projection which assumes that the North West will be unaffected by migration in future produces an increase of only 20,000 in the number of females available for employment between 1963 and 1971 (compared with nearly 55,000 males) and a further increase of just under 65,000 between 1971 and 1981 (compared with

nearly 85,000 males).

9. Quite spart from the general cautions given in parseraph 2 above, two additional qualifica-

tions need to be kept in mind in relation to these figures. Firstly, they are very sensitive to the activity rate assumptions on which they are better in the calculation of the state and entire the tent and the state and the state in the North Wart in 1971 the state and the state a

10. Moreover, projections which show the possible increase in employee numbers in the North Wort, whatever the besis of calculation, would be required in order to make full use of the region's labour resources, to the extent that certain parts of the region (especially Menseyside) have high unemployment at present.

EMPLOYMENT GROWTH

11. Chapter 4 showed that between 1953 and

1963, employment so a whole increased by only 1/8 per cent in the North West. Employment in the services sector increased by just over 10 per cent, but in manufacturing it fell by 4 per cent and in the relatively unimportant extractive industries it fell by nearly one third. 12. If total employment continued to grow as

slowly as this in future, less than 47,000 additional jobs would be provided in the North West between 1963 and 1971 and only about another 60,000 between 1971 and 1981. Growth on this scale would almost certainly not match the natural increase in the region's manpower rosources, particularly after 1971. The likely out-

Table 13 Projections of the numbers of employees in the North Wes

| As | rasi 63 | numbers of em | | the North | st over 1963 | 981 | Thousands |
|----------------------------|-------------------------|------------------------|-------------------|----------------------|----------------------|-------------------|---------------------------|
| | | Without Migration | | | Without Migration | With Migration | |
| Males Ferroles Total | 1,887 1,116 3,003 | 4 +54 +20 +74 | # 9 -15 - 6 | - 52 - 48 -100 | +153 + 84 +222 | #11 - 2 - 7 | C -113 - 98 -211 |

come would therefore be a continuing loss of population as a result of migration (though perhaps at a rate below that which applied in 1951-61), or unemployment in the North West at rates well above the national average, or both. 13. However, between 1953 and 1963 the structure of employment in the North West changed considerably, with the decline of the textile industry and other traditional forms of employment and the development of new industries and services. As a result, the region's employment base appeared to be rather sounder in 1963 than it had been ten years earlier. Employment growth was faster in the later years of this period than in the early 1950s: the four years 1959-63 produced an increase of 1-2 per cent in total employment. as compared with only 0-5 per cent in the six years 1953-59. If total employment continued to increase at the 1959-63 rate, about 70,000 additional jobs would arise in the North West between 1963 and 1971 and about a further 90,000 between 1971 and 1981. Growth on this scale would approach very much closer to the potential natural increase in the region's manpower resources in the period up to 1971, but would probably not be sufficient also to solve its unemployment problem. (In practice, of course, unemployment would almost certainly be reduced; but some net outward migration would continue.) And in the 1970s the potential

would again be likely to outstrip the growth in employment opportunities. 14. However, even in the period 1959-63 sharp contraction in the scale of certain industries in the North West (for example textiles, shipbuilding, mining, and transport and communications) was tending to conceal the amount of growth taking place in other sectors of the region's economy. If the rates of growth or decline which applied in individual industrial Orders in the North West in 1959-63 are projected into the future the results are as shown in Table 14. The increase in total employment between 1963 and 1971 would be nearly 190,000. Similarly, the further increase in total employment between 1971 and 1981 which would result

natural increase in the region's labour supply

from a projection of this kind would be considerably in excess of any likely growth in the region's labour resources.

Li Finally, the results of an alternative projects of employment by individual Orders is shown in Table 15. This is founded on a very tensisher forcest of trees in Great Bridsin as a whole up to 1911 wakeds, as a counterfair to the projection of the projection of

and 1971. 16. The very wide range of results produced by these various projections illustrates the great difficulty of producing employment forecasts for the North West which will be of any value as a basis for future physical planning. Knowledge of industrial prospects in the North West can be used to a limited extent to supplement the results of pure arithmetic. For example it seems unlikely that a further decline in employment in textiles on the scale implied by the projections described in paragraphs 14 and 15 will in fact occur. But it is essential that more attention should be given to this problem of forecasting. Investment in housing and other forms of social capital is very long-term. If it is not to prove extremely wasteful. there must be some assurance that the population growth which it is planned to meet will also be supported by employment growth on an adequate scale.

DISTRIBUTION WITHIN THE REGION

17. Even if total employment growth in the North West as a whole proves to be smilfactory, its geographical distribution within the region may give rise to difficulties. More than half the natural increase in the population of working age in the North West between 1961 and 1981 is likely to originate on Mercayide, which is also

case of individual Orders.

¹ This forecast is based on the projection of 1993-63 trends in employment for each S.I.C. Order, modified to take account of likely developments effecting output and productivity, and further adjusted documents for that is total it blastices the estimated total supply of labour in Great Blotails in 1972.
2 This method of projecting regional employment growth was found to be the most accurate of several which were tested on past figures. Not it should not be regarded as proposing entitled betreasts for the future in the

the area most in need of additional jobs to bring unemployment down to an acceptable level. 18. The information available about the extent of industrial movement in the North West in the post-war period is not comprehensive. Administration of the industrial development certificate control has given the Board of Trade complete knowledge of developments in manufacturing industry taking place in, or originating in, the North West and requiring new buildings over 5000 square feet in area. The Board also know of most moves into existing buildings in the meion which have been made by manufacturing firms. However, although information about manufacturing industry is thus fairly exhaustive, nothing systematic is known at all about movements affecting employment in the service

industries.

19. According to the Board of Trade's information between 1945 and 1963 nearly 250 moves took place affecting manufacturing industry already located in the North West, and 185 firms moved into the region from outside it. Of the moves originating within the region, nearly 100 were to other parts of the North West and these involved about 25,000 jobs; the other 150 were to places outside the region and these involved about 28,000 jobs. The moves into the region from outside it brought about 100,000 jobs to the North West, 96,000 of them to areas of high unemployment. 70 of the moves taking place within the North West and over 120 of the moves into the region were made into existing buildings and these involved about 60,000 jobs. 20. This information is not easy to interpret, but

it suggests that mobility of employment in the

Table 14 Projection of 1959-63 Employment Trends by individual orders in the North West

| | | Number employed 1963 (000s) | Average exwati growth rate 1959-63 (%) | Projected employment 1971 (000s) |
|---|--|--|--|--|
| _ | Agriculture, Forestry and Fishing Mining and Quarrying | 24-0 44-9 | -2·5 -6·9 | 20·0 25·0 |
| | TOTAL EXTRACTIVE ROBUSTERS FOOD, Drink and Tobacco Commission and Alled Industries Commission and Alled Industries Exprincering, Electrical Goods and Metal Good Stripbullding and Marrie Engineering, Velicies Cristine Commission of Marrie Engineering Clicking and Fooreware Cristine and Fooreware Cristine, Footstry, Clinas, Criment, etc. Timber, Furniture, etc. Timber, Furniture, etc. Timber, Furniture, etc. | 68-9 126-2 122-3 37-6 344-3 30-6 114-6 234-9 9-7 99-1 46-0 30-2 88-0 35-1 | -5-5 +0-3 -1-4 -2-4 +2-3 +6-4 +3-0 -5-8 -2-2 -0-1 +0-7 +0-8 +2-6 +1-2 | 45-0 130-0 109-0 1-0 413-0 18-0 145-0 145-0 8-0 98-0 49-0 32-0 108-0 66-0 |
| | TOTAL MANUFACTURNO INDUSTRIES CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTOR CONSTRUCT | 1,341-6 174-7 48-5 229-4 379-1 62-4 261-5 220-0 143-5 | -0-5 +2-8 +0-3 -1-5 +0-9 +2-9 +4-5 +0-3 +2-2 +1-2 +0-3 | 1,350-0 218-0 50-0 203-0 407-0 78-0 371-0 225-0 171-0 1,723-0 3,118-0 |

inducements to development were available; eighteen year period, moves into the region or some was involved in moves over very short distances within the region; and some was involved in moves influenced by the availability originating in it affected only about 150,000 manufacturing jobs in all. Some of this employ-ment went to places outside the region; some of existing (frequently cheap) premises. two-thirds of it was brought to areas of high

North West may be fairly limited. Over an

nnemployment in the North West where financial

| | Employment in the North West 1963 (000s) | In the growth rate growth rate North West 1959-63 1963-71 1963 G.B. N.W. G.B. N.W. | | | | Projected employment in the North Wes 1971 (000s) |
|---|--|--|------|------|------|--|
| Agriculture, Forestry and Fishing . | 24-0 | -3-6 | -2.5 | -3.7 | -2.6 | 19-5 |
| Mining and Quarrying | 44-9 | -4-8 | -6.9 | -4-1 | -6.2 | 27-0 |
| Food, Drink and Tobacco . | 126-2 | +0.8 | +0.3 | -0-3 | -0-8 | 118-0 |
| Chemicals and Allied Industries | 122-3 | -0.2 | -1.4 | -1.0 | -2.2 | 102-5 |
| Metal Manufacture | 37-6 | +0-8 | -2.4 | -0.3 | -3.5 | 28-0 |
| Engineering, Electrical Goods and Metal | | | | | | |
| Goods | 344-3 | +2-6 | +2.3 | +1.5 | +1.2 | 379-0 |
| Shipbuilding and Marine Engineering . | 30-6 | -5.6 | -6-4 | -2-2 | -3.0 | 24-0 |
| Vehicles | 114-6 | +0.2 | +3-0 | -0-4 | +2.4 | 138.0 |
| Testifes | 234-9 | -1-9 | -5-8 | -1-3 | -5-2 | 153-0 |
| Leather, Leather Goods and Fur | 9-7 | -0.5 | -2.2 | -1.3 | -3.0 | 7-5 |
| Clothing and Footwear | 99-1 | -0.2 | -0.1 | -1:1 | -1.0 | 91-5 |
| Bricks, Pottery, Glass, Cement, etc. | 46-0 | +1.1 | +0.7 | +0.4 | 0 | 46-0 |
| Timber, Furniture, etc. | 30.2 | +0-1 | +0.8 | -0.3 | +0.4 | 31-0 |
| Paper, Printing and Publishing | 88-0 | +2.2 | +2.6 | +0-6 | +1.0 | 95-5 |
| Other Manufacturing Industries . | 58-1 | +2.5 | +1-2 | +1-4 | +0.1 | 58-5 |
| Construction | 174-7 | +2.8 | +2.8 | +0.9 | +0-9 | 188-0 |
| Gas. Electricity and Water | 48-5 | +1.5 | +0-3 | +0.2 | -1.0 | 44-5 |
| Transport and Communications | 229-4 | -0.3 | -1.5 | -1.6 | -2.8 | 183-0 |
| Distributive Trades | 179-1 | +1.9 | +0.9 | +0.9 | -0.1 | 376-0 |
| Insurance, Banking and Finance | 62-4 | 43.4 | +2.9 | +2.4 | +1.9 | 72-5 |
| Professional and Scientific Services | 261-5 | +3.7 | +4-5 | +1-9 | +2.7 | 321-5 |
| Miscellaneous Services | 220-0 | +1-4 | +0-3 | +0.8 | -0-3 | 214-0 |
| Public Administration | 143-5 | +1-9 | +2-2 | +0-5 | +0-8 | 153-0 |
| TOTAL ALL INDUSTRIES AND SERVICES . | 2,929-6 | +1.1 | +0.3 | +0-4 | -0.3 | 2,871 - 5 |

Part Four Transport

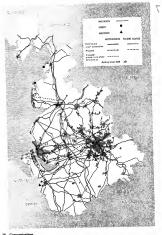


Fig. 20. Communications

The rallways shown are those in use, and the road proposals those approved or under consideration, at mid-1965

7 The Region's transport network

The transport network in the North West has to cauter for leasy and complex traffic flows. The region listed, with its densely populated urban areas and hope and growing transport demands. In addition, the region contains two of the principal national port, and the main national trunk routes, both road and rail, leading from the south towards Scotland, run through the lenth of the region. (See Figure 20.)

2. National and regional transport needs interested closely on one another in the North Waste closely on one another in the North Waste assister can be planned for in lostation. The North Water has beneficied considerably in recent years from major transport schemes which have present the properties of the new control of the control of the completed by the carried of planning, and will be completed by the early 1970a. Expenditure on other improvements, which have a regional ratter than a randomle dispitation of the properties of the school of the completed by the carried of the carried of the school of the completed by the carried of the carried of the school of the carried of the completed by the carried of the school of the carried of the complete of the carried of the school of the carried of the carried of the carried of the school of the carried of the school of the carried of the carr

3. The Merch West, transport network is a gradually being transformed and this process will both improve the region's economic efficiency and prospects, and do create new opportunities and prospects, and do create new opportunities indistrated growth. But even a sustained promote the prospect of the p

ROAD AND RAIL

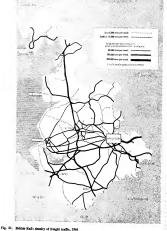
4. The M6 motorway and the main West Coast railway line from London to Scotland together form the major North-South axis of the region. Both follow the same general route through the centre of the region, passing midway between Liverpool and Manchester, and serving Crow, Warrington, Wigan, Preston and Lunesster.

5. The M6 is already complete from Caraforth near the region's northern houndary right through to south of Stafford in the West Midlands. This section of 110 miles is the longest unhroken stretch of motorway as yet in use in this country and it has brought about a dramatic improvement in road communications in the North West. But at present its southern end connects only with congested trunk roads in the Birmingham area and access to the M1 to London, and the M5 and M50 leading towards Bristol, the South West and South Wales, remains difficult. Until the Midland links joining up these motorways are completed, the North West will still not feel the full benefit from the investment which has been made in the M6. Work on the Midland links is being pressed abtad as rapidly as possible, but given the added

difficulties of planning and land acquisition in an area which is already hult up, it will he the early 1970's before the paps are finally closed.

6. By then, the M6 will have been extended northwards via Kendal, Penrish and Cartilise to join up with the A74 road to Gliagow which will have been improved to dual-carriageousy standard throughout its length. This will bring shoult a subplantial improvement in the North

West's links with Scotland.
7. The West Coast railway line is at present being electrified hetween London and Man-



Derived from "The Relatings of Beritin Railways "by permission of the British Railways Board.
The man allows the pattern of Traffic in 1961 and thes some lines which have since been closed are

[28]

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chester and Liverpool. Work on this major project is nearing completion and considerable improvements in the North West's rail services to the Midlands and South will result. From April 1966 the journey from Manchester or Liverpool to Euston will take not much more than 21 hours, which is about an hour quicker than on the fastest trains at present. Freight services in the North West are being improved by the introduction of modern handling methods in enecialised goods depots, and it is hoped that timer trains serving Manchester and Liverpool and providing guaranteed overnight delivery of goods to and from London and Giasgow will be brought into operation by about the end of this war. The British Railways Board propose to develop the West Coast line as their main trunk

route connecting London and Glasgow. 8. The main East-West road and rail routes seroes the Pennines are those connecting the Manchester and Liverpool conurbations with the West Riding towns and the Humber, The East Lancashire Road (A580) from Liverpool to Manchester has recently been converted to dual carriageway throughout most of its length. But the existing trunk roads eastwards from Manchester-the A62 to Huddersfield. Leeds and Bradford and the A57/A628 to Sheffield and other south Yorkshire towns-are not generally of a very high standard. The construction of the proposed Lancashire-Yorkshire motorway, on which advanced works are expected to begin within the next two years, will therefore bring the two densely populated areas of the Mersey division and the West Riding into much closer contact by road than ever before. It will also provide the North West with rapid connections to the Al, the MI and the North East, It will follow a line running between Bolton, Bury and Rochdale to the north and Salford, Manchester and Oldham to the south and will be connected to the East Lancashire Road as a link to Liverpool. Some improvements to the A57/A628 cross-Pennine route to Sheffield are also included in the road programme for the next few years. 9. At present there are two rail routes connecting Manchester with Leeds and two between Manchester and Sheffield; and no fewer than five lines run between Manchester and Liverpool. As Figure 21 shows, the main cross-Pennine routes are particularly important for the carriage of freight-for example an average of 170,000 tons

of goods traffic travels each week on the steartfied Manchester-Romfield line via Pensiston. The Railways Board appect there to be proved to the growth in cross-Pensist traffic in the years shad, and in order to cater for it they propose to develop two of the existing counts (Manchester-Romfield via Penistone, and Manchester-Romfield via Penistone, and Manchester and Liverpool (those via Warrington and St. Helens

Junction).

10. Within the region, a dense network of roads and railways links the main towns and provides connections with the national system. Traffic flows both by road and rail tend to converge on the two contratations, and Preston is also an

important nodal point (See Figures 21, 22 and 11. Altogether forty-four road improvement schemes each costing over £4 million are scheduled to be carried out in the North West in the course of existing programmes. Perhaps the most important is the proposed replacement of the present Manchester-Preston trunk road (A6) by a motorway following the same general line, but running a mile or two to the east. This should be completed by the early 1970s and will give the Preston area swift access to the Lancashire-Yorkshire motorway, as well as a greatly improved road link with Manchester. It is also proposed to replace the Liverpool-Preston road (A59) which is already a dual carriageway for some of its length; there are already in the road programme schemes for the improvement of its continuation which leads on from Preston into North East Lancashire and eventually into the West Riding, Manchester will be provided with better access to the M6 to the South West by the construction of another new motorway, which will eventually be extended to become an East-West Cheshire motorway stretching across Northern Cheshire towards North Walts. And the southern approaches to Liverpool, which have already benefited from the construction of the Runcorn-Widnes road bridge opened in 1961, will be further improved by the completion by about 1970 of a new trunk road (which may take the form of a motorway) running down the centre of the Wirral and

connecting with the second Mersey tunnel.

12. Local mil services into the two conurbations play a particularly important part in carrying

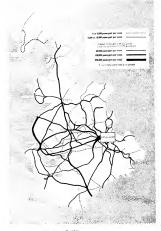


Fig. 21. British Rall: desixty of passenger traffic, 1961
Derived from "The Rathologic of British Rallways" by permission of the British Rallways Board.
The mag shows the pattern of traffic in 1961 and thus covers some services which have since been withdrawn.

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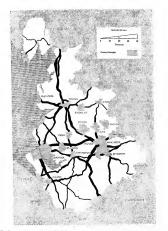


Fig. 23. Trunk reads: density of traffic, 1961 Compiled from the latest complete Trunk Road Truffic Coasses taken by the Ministry of Transport. The volume of traffic (represented by the width of the lines) is the average for a 16-four day over the period 2 let 27th August, 1961 (i.e. prior to the opening of most sections of motorway) commuter traffic. Over the post-war period there has been a great increase in the extent of travel to work into and within the conurbations. This trend seems bound to continue, as more bouses. are built in suburban areas and more workers are attracted to the two cities by the wide range of employment opportunities available in their highly diversified economies. But many of these commuter lines do not pay their way and the Report on the Reshaping of British Railways proposed that services should be withdrawn from some of them. It has already been announced that certain of these proposals (for example those affecting the Manchester-Buxton, Manchester-Bury via Prestwich and Liverpool-Southport lines) are not to be proceeded with at present. The future of other similar lines will have to be considered with particular care, especially where the financial losses at present being made are

13. In addition to goods transport facilities by road and rail the region will also be connected to the South East via the main refined perroleum transport pipeline and the methane gas distribution pipeline. There is also a highly developed pipeline complex within the south west part of the region.

CIVIL AVIATION

substantial

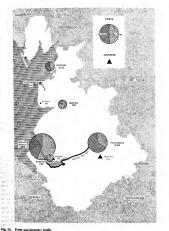
14. The major airports in the North West are at Manchester and Liverpool. (See Figure 24.) Both are owned and operated by the respective City Councils, but the Ministry of Aviation provides technical services. Manchester is one of the three transatlantic terminals in Great Britain (the others are London and Prestwick) and has some regular services to the principal European centres. There are also frequent flights to London and other destinations within the country. The airport is served by British European Airways, British Overseas Airways, a number of independent British airlines and several foreign airlines. It was used in 1964 by nearly 12 million terminal passengers. Traffic at Liverpool in 1964 was at rather more than a quarter of Manchester's rate with just over 350,000 terminal passengers. It is served by several British independent airlines and by Aer Lingus and provides regular flights to London, other British centres, the Irish Republic, Ostend and Rotterdam.

15. Regular air services on domestic routes are also provided by independent British striines from the municipally-owned sirport at Blackpool and Hawker Siddeley Aviation's aerodrome ar Hawarden, near Chester, Blacknool is med particularly for travel to the Isle of Man, and served over 150 000 terminal passengers in 1964traffic at Hawarden is on a much smaller scale but there were nearly 14,000 terminal passengers. in 1964. There are also a number of smaller aerodromes and landing strips in the North West which are used by industry, including those at Barrow (on Walney Island), near Preston (Warton and Samlesbury) and near Macclesfield (Woodford), but these do not provide public services.

16. Further improvements to the facilities available at Manchester, Liverpool and Blackpool airports are planned to be carried out in the next few years. It is proposed to extent the bength of order to make it suitable for the largest projected transitions are recorded to make it suitable for the largest projected transitionate in clarification. At Liverpool and serv turning of 7,500 feet it being built and this will be capable of extension to 10,500 feet; use terminal buildings are also to be provided. And at Black-double the service of the provided of the proposed of the propose

proved.

17. The North West's two major ports-Liverpool and Manchester-are of national as well as regional significance. Liverpool is the second port in Britain and the only one which approaches London in the scale of its activities-it bandles nearly a quarter by value of the country's trade whereas London handles about a third. Indeed. for export traffic Liverpool is perbaps rather more important even than London, Manchester consists in effect of dock installations spread out along the whole 35-mile length of the Ship Canal from the south side of the Mersey Estuary to Salford. In contrast to Livernool it is to a large extent used for import traffic and bas a particularly valuable function in enabling bulk commodities to be brought direct to the industrial developments along the Canal's banks and into the centre of the conurbation itself. It is also important for the shipment of refined products out from the important oil refinery at Stanlow.



The same imports, trained outperforms the same state of the same state of teas, is given in figures under a same state of the same state o

63

Both Liverpool and Manchester have carried out major extension schemes in the post-war period. A new river entrance to the North Liverpool docks including the provision of seven new berths, was completed in 1964 at a cost of over £20 millions; while the Queen Elizabeth Dock at the western end of the Manchester Ship Canal at Eatham was completed in 1953 at a cost of 535 millions.

15. The immediate binterland of these two ports consists of the North West region Instif, North Water, she North West region Instif, North Water, the North West Midlands and, to some curse, Vorshalms and the North East. It is the population only to the immediate hinterland of the Port of London, that form the lass load of the Mersey ports. Moreover, Liverpool's special importance for some trades for cample, that when the property of the pr

19. There are also a number of smaller ports in the North West, of which the most important are Preston, Heysham, Fleetwood and Barrow. Preston has expanded rapidly in recent years and, together with Heysham, it handles a good deal of traffic with Northern Ireland. Fleetwood is the only finhing port of significance in the Nonwet; there has been some decline in the size of the local fleet in recent years, but just under [10] vessels were still operating in 1944. Barrow has suffered from the construction of hasic industries suffered from the construction of hasic industries now operating at very much less than it; had capacity; iron ore imports for the local industry are the only remning traffic of any size, but the port facilities are of importance to the Vickers thippared which is the town't main source of

20. Under the Harbours Act, 1964, majes, schemes for new port improvements are now subject to the superoval of the Minister of Transchement of the Section o

Future transport needs 8

The programme of planned improvements to transport facilities in the North West which has been outlined in the previous Chapter will not be completed for some years to come. Where major development schemes are concerned, a long period of planning and preparatory work must inevitably precede the actual job of construction. Even if finance could be found at once for large new schemes in the North West, there would be little prospect of their being completed before the carly 1970s. However, by the same token it is by no means too early to consider what the outstanding needs of the North West in the transport field are likely to be when existing programmes have been completed.

ROADS

2. As far as roads are concerned, the completion of schemes in the Ministry of Transport's announced programmes will go a long way towards providing the North West with an adequate regional system linked to the main national network. The major new town and town expansion schemes which are to be carried out in the North West will all be well-sited in relation to the present and proposed motorway system. Skelmersdale will be served by a spur road from the M6: Runcorn will be close to the proposed East-West Cheshire motorway; the expansion of Warrington will benefit from the town's position on the M6: the Manchester-Preston motorway will run near to Westhoughton; and the Levland/ Chorley area is crossed by the M6 and is close to its proposed junction with the Manchester-Preston motorway. 3. Improvement in transport facilities in towns,

especially the two conurbations, will pose more

difficult problems. While more urban roads will

be required, it is clear that the overall transport needs of the conurbations can only be met by an integrated system of roads and public transport facilities planned to ester in the most practical and economic way for the particular demands of the area concerned. Such a system must be planned for each conurbation as a whole and as an integral part of planning for land use. That is the aim of the conurbation land use transport studies now starting on Mersevside and in the South East Lancashire compristion. They are designed to lead to the adoption of plans for the development of a commencion transport system for each conurbation, coupled with plans for land use development. It will be some three years before this stage is reached.

4. Meanwhile, some progress is already being made with urgent schemes and grants of about £8 million a year are being made available by the Government. In particular, the scheme for a second Mersey tunnel is oning ahead, and when this and its associated approach roads have been completed by about 1970 one of the main existing traffic problems on Mersevside will have been alleviated. But determined efforts to deal with traffic congestion in the conurbations will need to be maintained for many years to come.

5. Merseyside's links with the national network may also need further attention. The nort is likely to remain of great importance to the national economy for as far ahead as can be forescen. At present congestion and delays appear to be concentrated within the docks themselves, but when this situation has been eased it will be equally important to ensure that bottlenecks on roads leading to the docks do not prejudice the efficient working of the port. Since Mersevside is also an industrial centre of growing importance, a major improvement to its eastward links to the M6 may be required, possibly in the form of the Manchester-Liverpool motorway proposed by the Lancashire County Council. Westward from Merseyside, a proposal has been put forward for a crossing of the Dee estuary, one of the advantages of which would be to shorten journey times between Merseyside and North Wales, However, such a scheme would also have wider implications and it is further discussed later in this Report¹.

6. A rapid growth in road traffic at holiday periods and weekends seems likely to take place in the North West in future years, especially since ownership of motor cars in the region is not yet so widespread as in the country generally?. Congestion on roads leading to the Fylde coast, particularly in Preston, is already serious when holiday traffic is at its peak and this problem is likely to be accentuated by the completion of the Manchester-Preston and Lancashire-Yorkshire motorways. A motorway link from the M6 to Blackpool has been proposed, but has not yet found a place in the motorway programme. The Lake District is also likely to draw rapidly increasing volumes of traffic, especially as the M6 is extended northwards, and the burden on roads and parking facilities within the National Park will almost certainly become steadily more serious. Some spreading of the load might be achieved if roads through Furness were further improved, thus diverting some traffic round to the southern and western sides of the Lakes.

7. Improvements of this kind would also heln to ease the local transport problems of Furness itself. This area is isolated from the main centres of population in the region and its present road link with the national network (the A590) is generally of a low standard. Some improvements are already programmed; and access to Barrow in particular would be very considerably improved if a barrage across Morecambe Bay were eventually to be built, incorporating a new road. But a barrage scheme could not be justified solely on transport grounds and it would in any case be a very long-term project. Meanwhile the scheme put forward by the local authorities for a new road across the Kent Estuary to connect with the planned northward extension of the M6 should be considered independently of the harrage proposal.

RAIL

8. The future development of rail services in the North West will probably be much more a matter of making the most effective use of existing facilities than of undertaking major new investment schemes. The pattern for development of the major trunk routes suggested by the British Railways Board should provide for the North West's needs for long-distance services. The nart to be played by the railways in meeting the region's internal transport requirements in the long-term will need to take account of the results of the conurbation land use/transnort studies, when these are available.

CIVIL AVIATION 9. It seems certain that demand in the North West for air services will continue to grow steadily in future, but in Manchester and Liverpool the region already has two first-class airports and both are capable of extension to meet considerable increases in demand. The best estimates that can be made at present of the future growth in air traffic, both passenger and freight, suggest that further major airport development will not be needed in the region until at least the mid-1980s, and possibly even later if increasing use is made of Hawarden acrodrome. If and when a further major airport is required, it would probably be best to develop it towards the north of the region, both to avoid interference with the air approaches to Manchester and Liverpool and because the Preston/Blackburn/Leyland/Chorley area may well by that time have sufficient traffic potential to support such an airport. Alternatively, improved road access might give Blackpool airport growing regional significance. Meanwhile, the road improvements described in the previous Chapter which are to be carried out in the next few years will bring Liverpool and especially Manchester Airports within convenient range of a much larger number of people in the region. 10. Lancashire County Council have suggested

that the former R.A.F. airfield at Burtonwood (near Newton-le-Willows) should be developed as the North West's main regional airport. However, in the short-term the region's needs can be met quite satisfactorily by Manchester and Liverpool, in which very large sums have already been invested. Indeed, if necessary safety

1 See page 111, paragraph 20. 2 See page 48, paragraph 19.

standards were to be maintained and delays to incoming and outgoing attend? were to be avoided, the operation of a fast of airport to close to Marchester and Live pool would only reduce to Marchester and Live pool would only reduce the overall capacity of the area as a whole- of the control capacity of the area as a whole- of the control capacity of the area as a whole- of the control capacity of the ca

PORTS

 The future pattern of major port developments is a matter for national, rather than regional, planning. However, it seems certain that Liverpool's leading position as a general careo port will be maintained and that it will continue to be one of the region's main economic assets. The port of Manchester should also continue to be important though it seems very unlikely that any major reconstruction of the Ship Canal, in order to make it possible for larger vessels to use it, would be justified. However, present conditions place no more serious restrictions on the size of ships than does the St. Lawrence Seaway and there is considerable score for additional industrial development to take place alongside the Canal, especially in its lower sections. This would enable further use to be made of the particular advantages which the Canal offers.

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Part Five The physical environment

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9 Housing needs

From in et outward migration from the North West continues in future at about the same rate as in the recent past a very considerable increase is likely to occur in the region's population incoming years. Thus in the region, Market again time one to be a second of the same time once houses will be needed to meet existing shortages in some parts of the North West. Thirdly, as is well known, a large part of the region's present housing sold in its poor seits and noted to be

2. These three components of the North West's total housing needs in the period up to 1981 have therefore to be considered in turn. But it must be emphasised at the outset that it has not been found possible to make any final estimates of renewal needs or existing shortages, while the demand for additional houses which is likely to erise from future increase in the region's population has been calculated only on the basis of the particular assumptions regarding growth and distribution of population which were outlined in Chapter 3. Although, therefore, a final section of this Chapter brings together estimates of the North West's total needs, these estimates must he considered in relation to the assumptions on which they are based. The same qualification applies to Chapters 10 and 11 which deal with the implications of alternative estimates of housing needs in the North West for building rates and land supplies.

3. In any case, whatever housing programme may be decided upon for the North West in the years ahead will have to be accommodated within whatever national programme the state of the economy makes possible.

4. Chapter 3 set out two bask sets of population projections for the North West, one based on the assumption of so net population movement, and the other bases of the new population movement, and the other bases of the new population provided the prevailing between 1956 and 1964. The object of these projections was to provide rought upper and lower estimates of future population for the region as a whole and it is and-vision, those estimates being of ocurn by population if a manged of constitutions.

5. These two sets of projections have been used for the purpose of making upper and lower estimates of future numbers of households requiring assumed to the control of the control engine of the control of the control of the control and 42 of the Statistical Appendix. In them a distinction is made between "planned" morement and "voluntary" movement by "voluntary" required the control of the result of planned overspil schemes. 6. For the region as a whole, it is estimated that

marty 281,600 additional dwellings will be orequired by 1981; if there is to be no not loss of oppulation by migration, while an allowance for migration, on the basis of past trends, diminishes the total need by 54,000 dwellings. If, therefore, the assumptions on which these estimates have been made are reasonable once, migration. It military not are the region of the proper of the military in the region of the region of the region of military and the region of the region of the region of distribution of bousing needs and their effect in this respect will roughly correspond to their effect on opposition distribution.

7. If natural increase alone is taken into account, it is estimated that the Mersey division's! needs will comprise 83 per cent of the total for the region, although its present number of households is only 74 per cent of the total for the region. This proportionate gain is at the expense of the North Lancashire division, the needs of which will constitute only 11 per cent of the region's total, although its households now constitute 20 per cent of the region's total. The South Cheshire division is left in the same relative position. 8. If, on the other hand, migration (including planned oversnill) is taken into account, the position is drastically altered, and the broad effect more than compensates for the unbalancing influence of natural increase. On this basis, the Mersey division's needs will be only 54 per cent of the region's total, although currently it has

the North Lancakine division's needs will be 30 per cent of the region's total, although at present it has only 20 per cent of the region's households. The Cheshire division, which has now only 6 per cent of the region's households, will have 14 per cent of its increase. 9. Equally important shifts take place within the divisions themselves. In the North Lancakine with the control of the control of the control of the two-thirds of total household increase. If no

74 per cent of the region's households. In contrast,

t account it taken of migration (including overspill), and the Laneaster/Pole sub-division only
a quarter. If migration it taken into account, the
position is roughly reversed.
10. Within the Merney division, and particularly
within the comurbation sub-regions, the balass, and
of need is substantially altered by migration.

10. Within the Mersey division, and particularly within the countribation sub-regions, the balance of need is substantially altered by migration, and reflects a considerable movement out from the inner areas of the conurbations. The Manchester and North Merseyside sub-regions will actually suffer a net loss of households.

CURRENT SHORTAGES

tion are excluded):

 Estimates of existing housing shortages in the North West have been worked out from the following:—

(a) data supplied by local planning authorities on the basis of screened waiting lists (families already in separate accommoda-

(b) an estimate of shortages arrived at by setting the number of occupied dwellings in 1964 against a calculation of the total number of households requiring separate accommodation. This calculation takes into account 1961 census information on enumerated households.

Table 16 Estimates of Numbers of New Households Requiring Accommodation by 1981

| Simple Projection on Basis of Natural Increase only (2) | Projection adjusted for Planned Overspill Schemes (3) | Projection further adjusted for Voluntary Migration based on Past Trends (4) |
|--|---|--|
| 281,590 | 281,590 | 227,590 |
| 30.150 | 45,150 | 69,250 |
| 3,520 | 3,520 | 1,920 |
| 7,600 | 7.600 | 40,300 |
| 19,030 | 34,030 | 27,030 |
| 233.140 | 212.840 | 124,940 |
| 90.950 | | 25,240 |
| 36.250 | | 81,260 |
| 105,940 | 60,840 | 18,440 |
| 18,300 | 23,600 | 33,400 |
| | Basis of Hataral Increase only (2) 281,590 30,150 3,520 7,660 19,000 233,140 90,950 36,250 105,940 | Batta of Natural Ser Element Overpul Increase only (3) 231,500 (3) 231,500 (3) 241,500 (3) 251,500 (3) |

¹ Figure 6 on page 9 shows the divisions, sub-divisions and sub-regions referred to in this chapter.

These estimates are set out for sub-divisions in Table 41 of the Statistical Appendix¹.

Table 41 of the Statistical Appearance.

12. They show that the Merey division suffers a shortage of nearly 75,000 dwellings compared with one of just over 82,000 for the region as a whole. This means that over 90 per cent of the existing sbortage in the region arises within this division although it has only 74 per cent of the

region's total bouning stock.

IJ. Within the Merrey division itself, the most serious area of abortage is the Memoyride sub-wide and a serious area of abortage in the Memoyride sub-wide in the serious area of a serious and the bulk of it is concentrated on North Memoyride where over 35,500 additional dwellings are needed, 25,000 deficient dwellings are needed, 25,000 of them in Liverpool. The 1916 creams showed that Liverpool boal 117 per cent of its population between the contract of the population of the contract of the

socil seas on North Mensyside for overcovaling were lowers show to be Kirkly and Huyton fig were lowers show to be Kirkly and Huyton fire which the corresponding percentages were 188 per cent and 151-per cent (fleets have been recoption areas for overpall from Liverpool). He is a second to the contract of the contract per contract of the contract of the contract shows 17,500 dwellings, and Manchester County Berough in particular non of \$200. The 1961 census showed that Manchester lad 64 per formation of the contract of the contract of the contract of the formation of the contract of the contract of the contract of the formation of the contract of the contract of the contract of the formation of the contract of the contract of the contract of the formation of the contract of the contrac

15. The remaining sub-division of the Mersey disking (Warrington/Wigan) has a shortage of just over 7,300 dwellings. The 1961 census showed that St. Helens bad 6-5 per cent of its population living at densities of more than 1½ persons per labilitable room. The corresponding percentage for Wigan is 5-7 per cent with 8-6 per cent and

habitable room. The corresponding percentage for Wigan is 5-7 per cent with 8-6 per cent for 7-1 per cent for the areas of Aspull and Ince in Makerfeld algolning. 16. Outside these areas there are no widespread shortages. Indeed the absence of such shortages is generally characteristic of the older Lancathire industrial towns which have experienced nesisindustrial towns which have experienced nesisRENEWAL NEEDS

17. Renewal mods have been considered primarily in terms of dwelling in noof of replacement either because they are already unifs or as likely to become unif by 1983, or because they must be demolished to make way for other planned developments. To enable an assessment of this problem to be made, local planning authorities were asked in December 1984 to authorities were asked in December 1984 to their areas as they stood at the middle of 1984. These stimitumes have been used thromshort like.

section of the report. 18. Use has not been made of the official slum clearance returns which local authorities submitted to the Ministry of Housing and Local Government in 1955 and which have been amended from time to time since. The reason for this is that some of the figures in these returns appear to be related to actual clearance programmes rather than total needs, and some are in any case out of date. The Ministry of Housing and Local Government bave bowever recently sent all authorities a circular asking them to submit fresh estimates of the number of unfit houses in their areas regardless of the time which will be required in order to clear them. These estimates were not available in time to be taken into account in the preparation of this report.

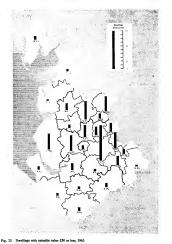
19. Although local authorities have little difficulty in deciding when a house is natently unfit to live in, the statutory definition of a slum is not precise, and local authorities cannot be expected always to apply exactly the same standards in judging whether a particular dwelling is unfit. A sub-committee of the Central Housing Advisory Committee is at present examining the whole question of standards of fitness to see whether greater objectivity can be achieved. Meanwhile, however, the following measures have been provisionally used as additional evides to the condition of the region's housing stock, and the resulting information is recorded in detail alongside the local planning authorities' estimates in Table 39 of the Statistical Appen-

tent net outward migration of population. dix.

¹ In addition, Table 40 of the Statistical Appendix gives census data on overcrowding.

In someon, takes we in the purposes appearing gives consist data on overcrowding.
 The statutory definition of overcrowding for the purposes of the Housing Acts is a density of one or more persons per habitable room. These features, therefore, illustrate sowers overcrowding.

³ The figures were supplied by the planning departments of these authorities, after consultation with district council officers in the case of the councils.



The heights of the columns are proportional to the number of dwellings with rescable value £10 or less as April, 1963. The processings which these represented of all separatory randed dwellings is given figures; for England and Wales as a whole the proportion is 18.5 per cont (see Appendix, Table 39) 74

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(a) Rateable Value Rateable value statistics provide, subject to certain regional and local variations in values, a rough indication of the general quality of housing in particular areas, and Group I dwellings, which consist of those valued at £0-£30 (exclusive of farm workers' dwellings) can be regarded, whatever the area, as representing a substandard category of accommodation. Dwellings within this category are generally old, small, and of poor quality and can certainly be regarded as potential, if not actual, slums. Statistics of Group I dwellings have accordingly been compared with the local estimates of slum clearance needs.

(b) Lack of Baths

The presence or absence of a fixed hath is a useful objective criterion of the general quality of a dwelling, though houses without baths are not necessarily to be regarded as slums, 1961 census estimates of houses without baths have also therefore been compared with the local slum estimates and ratesble value data.

(c) Age of Buildings No reliable and complete information is

available on the age of dwellings. However, a significant index of the proportion of housing in an area which is obsolete can he obtained by comparing the total number of dwellings enumerated at the 1861 and 1881 censuses with those enumerated at the 1961 census. The higher the proportions of dwellings recorded at the previous censuses in relation to the total number recorded at 1961, the worse the problem of obsolescence is likely to he, unless an exceptional amount of re-development has taken place in the interim.

20. According to the local estimates, roughly 440,000 dwellings in the North West are either unfit to live in or are likely to become so by 1981; this represents a ratio of one in every five dwellings. This figure compares with a total of ahout 537,000 dwellings of £30 rateable value or less, and a total of nearly 512,000 dwellings lacking a fixed bath

21. Although there are no corresponding returns from local planning authorities for the rest of England and Wales, comparable statistics are available of dwellings of £30 rateable value or less. Table 17 compares the North West in this respect with the country as a whole and with certain other parts of it which suffer from major problems of obsolescence.

Table 17 Numbers of Dwellings of £30 Rateable Value, or Less-a Comparison with the National Total and with Totals for Selected Geographical Counties

| Area | Number of Dwellings | Total House Stock |
|-------------------------|------------------------|----------------------|
| England and Wales | 2,586,746 | 18-5 |
| The North West | 536,931 | 25-9 |
| North Lanes. Division | 137,375 | 32-9 |
| Mersey Division | 368,831 | 24-0 |
| South Cheshire Division | 30,725 | 25-1 |
| Dorbam | 144,467 | 30-2 |
| Glamorean | 94,397 | 26-6 |
| London | 18,428 | 2-1 |
| Staffordshire: | 111,721 | 21-0 |
| Yorks, (West Riding) | 460,319 | 38-2 |

22. This table shows that the North West has roughly one fifth of the total number of dwellings in England and Wales which fall in the lowest rateable value group; and that nearly 26 per cent of the region's total housing stock falls within this group compared with the national average of 184 per cent. Although the North West as a whole and the most densely populated part of the region (the Mersey division) do not annear to have a proportionately greater number of dwellings in this group than certain other industrial areas of the country, there are individual local authority areas in Lancashire where conditions in this respect are at least as bad as any in the other counties mentioned. In general it can he said that although the proportion of poor housing stock in the North West is not exemtional for a region extensively developed during the Industrial Revolution, the scale and concentration of the problem there is outstanding. (See Figure 25.) 23. The broad pattern of renewal needs within

the region is illustrated in Table 39 of the

Statistical Appendix, which includes the numbers

of dwellings local planning authorities consider will have to be cleared for reasons other than their condition (for example, because of necessary road improvements or to enable town centre re-development schemes to be carried out). Three-quarters of the slums in the North West, according to the local estimates, lie within the Mersey division, and two-thirds of the slums within this division (in other words nearly balf the region's total) are to be found within the South East Lancashire sub-division where in all roughly one-quarter of the bousing stock is said to be in need of clearance. The main problem appears to be in the Manchester sub-region where nearly 30 per cent of the existing stock needs to be replaced.

24. Although the slum problem in the Mersey-side sub-division is estimated as substantially less than that in the South East Larcathire subdivision in terms of numbers, it is proportionally just as great. Here over one quarter of the total housing stock is said to be in need of clearance. The problem is in fact concentrated on North Merseyside where 31 per cent of the bousing stock needs to be cleared.

25. The other main areas of need are in the Ribble sub-division, chiefly in the Blackburn, Rossendale and Burnley sub-regions. Here one in every three dwelfings (within Blackburn and Burnley themselves every other dwelling) is said to be in need of clearance.

26. The broad pattern of needs emerging from these estimates is borne out in the main by the rateable value and census statistics. There are, however, significant variations and discrepancies. For instance, the Merseyside sub-division is estimated to bave just over 100,000 slums, although only about half this number of its dwellings have rateable values of £30 or less. On the other hand, the South East Lancachine sub-division is said to have about 210,000 slums. while over 260,000 of its duellines fall within this lowest rateable value group. This difference suggests that the basic renewal problem in the South East Lancashire sub-division may be even greater than the slum estimates show and proportionally greater than in the Merseyside sub-division-a hypothesis supported to some extent by the census data on houses without baths. 27. The position within the South East Lanca-

shire sub-division is illustrated in detail in

Table 39 of the Statistical Appendix and from this it can be seen that the slum estimates for several of the peripheral areas are far short of the total numbers of their dwellings in the lowest natable value group. For instance, it appears that the numbers of slums in Bolton, Bury, Sailyhridge and Stockport are less than, half in each case of the total numbers of dwellings in the lowest retable values group.

23. It is inconclusive to compare the Manchester sub-regions with the other sub-regions in this respect since property values towards the centre of the consurbation tend to be higher. However, the census statistics on lack of fixed baths give some support to the view that bousing conditions in the urban helt running roughly in an are round the northern part of the consurbation may be as had as, if not worse then, those within the Manchester sub-region as a whole.

29. Other parts of the region where the data seem to indicate that the renewal problem has been under-estimated are the Warrington/Wign sub-division and the Blobles sub-division. In the sub-division was the Blobles sub-division. In the sub-division was the Blobles sub-division. In the sub-division was the Blobles sub-division. In the case of the State, while only a little over balf this percentage of its dwellings are disastified as simus. In the case of the latter, are disastified as simus. In the case of the latter, as simus and lack fixed baths, but 46 per cent full within the lower trateable value group.

30. The general conclusion to be drawn from these comparisons is that while at least twothirds of the North West's renewal problem falls within the Mersy division and is concentrated in the main in the conurbations, the problem in North East Lannashire, the Wigan-Warringson area, and a number of towns on the north side of the Manchstert conurbation may well be wore than the local estimates show, and proportionally worse than in the ontress of the conurbations.

THE REGION'S HOUSING NEEDS SUMMARISED

^{31.} These three elements—future increase in bouncholds, existing shortness and renewal needs—can now be brought together to provide an estimate of the North Wen'ts total bounding needs in the period up to 1981. This is done in summary form in Table 18 and a more detailed analysis is given in Table 41 of the Statistical Appendix. The predominance of slum elearance

nteds is obvious. Irrespective of whether allowance is made for migration, these represent the greater part of the total needs of the region as a whole and of the Mersey and North Lancashire divisions. Even the sium totals for these areas, however, are considerably smaller than the number of dwellings in them of £30 rateable without of these.

 Another striking point which emerges is the present deliciency of dwellings on Merseyside. This deficiency amounts to nearly one-third of slum clearance needs, and the problem is concentrated on North Merseyside.

33. In general, despite the provisional nature of the slum estimates and the uncertainty regarding future population movement, it can be concluded that the housing needs of the North West up to 1981 will be enormous, that they will be concertated in the main in the Mersev division. and that the extent of destrance needs in this division is is likely far to outwigh any result from approved overspill schemes. In addition, it may well turn out that the retenval needs of the Wigan-Warrington area, and some of the cotton towes, are worse than the slum estimates show and proportionally as had, if not worse, than those in the lanes areas of the countrations.

34. The different estimates of total needs shown in Table 18 are not, however, as cet out with the intention of suggesting that any perficular one should be adopted as a basic for action. They are simply designed to show the varying scale of the total problem depending upon different assumptions adopted regarding migration and the desirability of cleaning up-handard property. The implications of these estimates for bousting rates and land surpoles are dealf with in the next.

Table 18 Alternative Estimates of Total Housing Needs Based on Differing Assumptions Regarding Migration and Redevelopment Needs

two chapters.

| Ares | Total Housing Need Allowing for Voluntary Migration | Total Housing Need not Allowing for Voluntary Migration | Total Housing Need not Allowing for Migration and Assuming Clearance of all Dwellings of £30 Extendite Value or less | Effect of Planned Overspill Movement |
|---|---|---|--|---|
| The North West | 791,090 | 845,090 | 942,051 | - |
| North Lancashire Division Furness Sub-Division Lancaster-Pylde Sub-Division Ribble Sub-Division | 150,600 4,060 55,070 91,470 | 126,500 5,660 22,370 98,470 | 175,155 14,131 18,498 142,526 | +15,000 NII NII +15,000 |
| Mersey Division Mersey Sub-Division Warrington-Wigzn Sub-Division South East Lance, Sub-Division | 599,210 219,490 66,370 313,350 | 587,110 255,990 75,370 355,750 | 715,091 204,809 104,097 406,185 | -20,300 -29,210 +54,010 -45,100 |
| South Cheshire Division | 41,250 | 31,480 | 51,805 | + 5,300 |

10 Implications for house building rates

If by 1981 all the people living in the North West are to be provided with tolerable housing conditions, a tremendous programme of now building will have to be carried through. Table 19 compares the second to the compare of the compares to the second to the compare of the compares which would be built in the region if the annual housing rate up to 1981 were the average for the three years mid 1964-mid 1964. This average has been chosen as a bailt in the property of the compares of the compares of the compares are provided by the compares are provided by the compares are provided with the compares are provided wit

singly year is likely to be very unreliable. The main purpose of the table is to demonstrate the miniputations for the building industry of the difference of the building of the building of the means in estimating the provision required in particular areas, no deduction is made from totals of regional needs to allow for new town proposales since these too create demands upon resources within the region.

Table 19 shows that a substantial shortage will occur, even on the lowest of the alternative

Table 19 A Comparison of Alternative Estimates of Needs with Recent Total Building Rates

| Area | Total Housing Provision Required Allowing for Voluntary Migration (1) | Total Hossing Provision Required not Allowing for Voluntary Migration (2) | Total Heasing Provision Required not Allowing for Migration and Assuming that all Desillings of 130 Ratcoble Value or Less to be Cleared (3) | Result of Pro- jection to 1981 of Idean Total Annual Building Rote for mid-1961 to mid-1964 (4) |
|--|---|---|--|--|
| The North West | 791,090 | 845,090 | 942,051 | 616,119 |
| North Lancashire Division Furness Sub-Division Lancaster-Fylde Sub-Division Ribble Sub-Division | 165,600 4,050 55,070 106,470 | 141,500 5,660 22,370 113,470 | 190,155 14,131 18,498 157,526 | 111,945 6,109 43,788 62,050 |
| Mersey Division Merseyside Sub-Division Warrington-Wigun Sub-Division South East Lancs, Sub-Division | 578,910 190,280 120,380 268,250 | 666,810 226,780 129,380 310,650 | 694,791 175,599 158,107 361,085 | 455,486 135,716 79,483 240,317 |
| South Cheskire Division | 46,580 | 36,780 | 57,105 | 48,688 |

 N, δ , Figures in columns (1) and (2) include local estimates of slams.

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¹ The precise assumptions made in respect of planned overspill movement are given in Table 42 of the Statistical Appendix.

estimates of needs, if house building rates in the North West are not greatly increased. If all houses regarded as slums were to be replaced. and if there were to be no net loss of population by voluntary migration, the average annual building rates for the region as a whole and for the Mersey division1 would have to be raised by 37 per cent and 48 per cent respectively above the average for mid 1961-mid 1964 (equivalent to annual compound increases of nearly 4 per cent in the first case and slightly over 4 per cent in the second). If in addition all dwellings of \$30 rateable value or less were to be cleared, the average rates in both cases would have to be over 50 per cent higher (equivalent to an annual compound increase of roughly 5 per cent). Only in the South Cheshire division is little increase likely to be needed to meet foreseeable require-

LOCAL AUTHORITY BUILDING RATES AND CONTRIBUTION OF NEW TOWN PROPOSALS

ments

3. In calculating the proportion of bousing needs which will have to be met by local authorities (with the aid of new towns in certain cases), it has been assumed that slum clearance will continue to be carried out almost exclusively by local authorities, and that in general this will be the main element in their bousing programmes.

Estimates have accordingly been worked out on the assumption that they will have to meet all slum clearance needs, all other redevelopment needs, but only a quarter of general housing needs. The total contribution to be made by developments under the New Towns Acts has been assumed to be 53,000 dwellings.2

4. The scale of the demands which it is thus estimated may fall upon local authorities, is illustrated in Table 41 of the Statistical Appendix. It is clear that in general a much emater increase will be needed in local authority house building rates than in overall house building rates, even on a moderate assessment of the burden falling upon the public sector. If all bomes resarded as siums were to be cleared, and the appropriate proportion of general needs (as calculated) to he met, the average annual local authority building rate for the region as a whole would have to

be more than doubled, even allowing for the contribution of new towns and for continued net outward migration on the basis of past trends. This is roughly equivalent to an annual compound increase of 8 per cent. In the Messey division the local authority building rate would have to be nearly doubled, and there would have to be a compound annual increase of between 7 and Spercent. In the Ribble sub-division of North Fast Lancashire an annual compound increase of more than 15 per cent would be necessary.

Table 20 Projection of Past Slum Clearance Rates

| Area | Time Required to Clear Estimated Totals of Stunut* at Mesn Clearance Rate for mid-1961 to mid-1964 | Time Regalted to Clear all Dwellings of Reseable Value of £30 or less at Mean Clearance Rate for wid-1961 to wid-1964 |
|--------------------------------|---|---|
| | Years | Years |
| The North West | 33 | 40 |
| North Lancashire Division | 50 | 78 |
| Ribble Sub-Division | 49 | 78 |
| Merser Division | 31 | 34 |
| Mersewside Sub-Division | 42 | 21 |
| South East Lanes, Sub-Division | 29 | . 36 |
| South Christice Division | 15 | 45 |

[.] These estimates do not allow for slums accumulating after 1981; nor do they allow of course for the possibility of increasingly higher standards of fitness being applied, Printed image digitised by the University of Southempton Library Digitisation Unit

¹ Figure 6 on page 9 shows the divisions, sub-divisions and sub-regions referred to in this chapter. 2 Table 42 of the Statistical Amendix gives a breakdown of this figure.

The position in relation to slum clearance is brought out starkly in Table 20 which compares estimated needs with recent clearance rates.

PRIVATE ENTERPRISE HOUSING RATES

6. The position in ministion to the private section is to become marked/different. It is clear from Table 21 than over the region as a whole, the North Lanesakine sub-division, and the South East Lanesakine sub-division, as whose the second produce of the complex for the second produce of the complex for the second produce of the complex for the second produce of the three privates are the complex form of the complex for the second produce of the same private for migration on the basis of the private sector to meet all the stretch specific produce of the second produce

BROAD CONCLUSIONS

Despite the tentative nature of the alternative estimates of total needs, and their implications for building rates, it is clear that a substantial increase in building rates in the North West value to encoded in the years up to 1981, and that the busten failing on the publishers of the proportionality for the publishers of its current share of older publishers of the current share of older publishers of the current of passes of the publishers of the publishers of publishers of the publishers of publishers of the p

future canacity of the building industry or the

scient we which local authorities may be able to increase their building rates. A projection of past building rates would give no useful guidance in the absence of any definite long-sterm trend. Clearly the future performance of local authorities may be influenced by a wider range of factors such as the further development of industrialisate building technique, local government reorganisation, and the current reviews of bousiness publishes and however, already evidence of vigorous action by some local authorities to meet their problemas! Manabester and Livernood

Corporations, in particular, have made a com-

prebensive assessment of long-term needs, and

are planning well ahead to meet them. Much

Table 21 Possible Contribution by Private Enterprise to Meeting Other than Slum Clearance Needs

| Area | Housing Need (less Redevelopment) Allow- ing for Voluntary Migration and Planned Overspill Movement (1) | Housing Need (less Redevelopment) not Allswing for Voluntary Migration but Allswing for Planned Overspill Movement (2) | Contribution by Private Enterprise on basis of Mean Annual Building Rate mid-1961 to mid-1964 (3) |
|---|--|--|--|
| The North West | 309,710 | 363,710 | 369,104 |
| North Lancashire Division | 74,720 | 50,620 | 88,020 4,239 |
| Furness Sub-Division | 2,890 | 4,490 | 40,460 |
| Lancaster-Pylde Sub-Division Ribble Sub-Division | 42,200 29,630 | 9,500 36,630 | 43,321 |
| | 199,370 | 287.270 | 248,637 |
| Mersey Division Merseyside Sub-Division | 65,430 | 101,930 | 68,532 |
| Warrington-Wigan Sub-Division | 88,590 | 97,590 | 53,246 |
| South-East Lancs. Sub-Division | 45,350 | 87,750 | 126,859 |
| South Cheshire Division | 35,620 | 25,820 | 32,447 |

1 Local authority completions rose from 14,841 in 1963 to 18,126 in 1964. The next best year was 1961 when 11,937 dwellings were completed.

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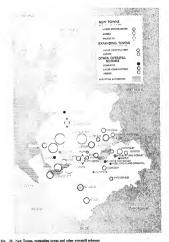
has, moreover, already been done with the existence of the Regional Office of the Ministry of Housing and Local Government to raise building rates by greater use of industrialised hullding techniques and by the better organisation and disposal of resources. The establishment of two consortia of housing authorities in the region is a particularly significant development.

10. It is therefore reasonable to look forward to continued increases in huilding rates in the public sector, some of them substantial. But it may be doubted whether these will be adequate, particuterly in mid-Lancashire and the "cotton towns" where there is evidence that the renewal problem is proportionally worse than in the key cities of the verion. This is a problem which must ohviously be studied further not only in relation to the canacity of the huilding industry, and the househuilding rates attainable by local authorities, but also in relation to the competing claims

of other public huildings and works programmes

in the region and elsewhere. 11. It is however clear that, whatever the scale of increases in huilding rates which may be

achieved, it is of vital importance to secure the conservation and improvement of existing dwellings, where this is practicable. Much of the region's housing stock, though old and deficient. is structurally sound and capable of improvement, and the sheer weight of the hasic slum problem makes it essential that these dwellings should he used to the host advantage. This involves not only encouraging more individual improvements to property for which grants are available, but also the carrying out of wider environmental improvements under the "improvement area" procedure. The possibilities for comprehensive improvements of this kind are at present the subject of a pilot study being undertaken by the Ministry of Housing and Local Government in the Deeplish area of Rochdale.



Agreed one towns, town development and other overspill housing arbitrate are shown as at mid-1985. Relative numbers of devellings brings provided for planned overspill are indicated by the areas of the circles. The approximate locations of the proposed new towns at Leyland-Chorley and Warriston are also shown

11 The need for housing land

THE BASIS OF ASSESSMENT

If the North West's bousing needs in the period up to 1981 are to be met, substantial quantities of additional land in the region will be required for housing. In order to make some estimate of the amount of land already available to meet housing needs, local planning authorities were asked for returns; the information drawn from them is set out in Table 41 of the Statistical Amoendix, These returns were not based on a detailed site survey or on common assumptions regarding bousing densities; they must therefore be regarded as providing only approximate personners and may include some land the development of which may not in the end be amproved owing to conflicting claims. On the other hand, the returns for a number of areas where no special problems arise merely show, as available for development, land actually required to meet bousing needs. For this reason, the returns for the region as a whole, the North Lancashire division and the South Cheshire division are almost certainly under-estimates. The returns for the Wigan/Warrington subdivision also probably embody slight underestimates since the capacities of Skelmersdale, Runcorn and Westhoughton have been assessed in terms of population targets and not actual

in terms of population targets and not actual land availability.

2. The returns are, in fact, estimates of land falling into the following two categories:—

(a) Virgin Lané All land zoned for residential development in town maps, approved or in draft, which was not developed to the point of occupation by mid-1964; in addition, land outside proposed green belts' not so allocated, but thought suitable for developation. ment. (Certain sites are however included which are on the periphery of the Menseyside conumbation and which the Minister of Housing and Local Government has already proposed to exclude from the Messeyside and South East Lancashire Green Belly.

(b) Land for Redevelopment All land to be made available for bousing

in slum clearance and other redevelopment areas. In some cases the total has been calculated by applying broad assumptions on replacement rates to total slum clearance needs.

3. The actolation of proposed green bit areas from these returns it not intended to indicate that it would necessarily be wrong to develop any sine within them. The aim of the exclusion was solely to form an estimate of the amounts of land which would be available without encroaching on proposed green belts, and there is no doubt that in the Mersey division and elsewhere there is proposed green belt land which is capable of development.

BROAD RESULTS

above a surplus of housing lead in the regions as whole, irrespective of whether account is taken of the possibility that not outward migration may come to a not. But this is of little significance in itself since surpluses in parts of the region cannot cantomatically be set against deficiencies in others. The broad potents is in face once of a substantial supplus and the width face once of a substantial supplus in the width that South Cheshire division, and a deficit within the South Cheshire division, and a deficit within the Mercay division face with new forms.

4. The returns from the planning authorities

¹ The green belt proposals which have been made for the North West are described in Chapter 12 below.

loss of population by voluntary migration is assumed).

5. Closer analysis of the figures shows, moreover, that no serious shortages are likely to arise within the North Lancashire and South Cheshire divisions, although there are pockets of shortage in one or two towns (Preston for example). The only serious problems arise within the Mersey division, where allowing for all planned overspill schemes both the Merseyside and South East Lancashire sub-divisions are shown as having inadequate land, even if net loss of population by voluntary migration continues. These deficiencies contrast with a moderate surplus in the

Wigan Warrington sub-division. 6. Land shortage appears therefore almost exclusively a conurbation problem, and Table 22 illustrates the position in the two sub-divisions in question.

THE MANCHESTER CONURBATIONS

7. It emerges from Table 22 that, if past not voluntary migrational trends continue, planned overspill schemes will be more than adequate to meet the overspill needs of the Manchester subregion, and that the only areas of large shortages

will be the Stockport and Altrinobam sub-regions. Nevertheless, the South East Lancashire subdivision as a whole is still left with a net deficir of 2,700 dwelling sites, and this is increased to one of 45,100 sites, if a cessation in net outward migration is assumed.

g The Stocknort and Altrincham sub-regions comprise attractive dormitory areas which have hitherto experienced considerable net immigration of population, and it is the projection of this trend which is the main cause of the large shortages shown against them in column 2 of Table 22. These estimates of sbortages are therefore artificial in the sense that if all land available in the two sub-regions is eventually used up, net immigration will almost certainly cease. The figures are nevertheless highly significant as demonstrating the inadequacy of the land still

available in the two sub-regions to meet future private enterprise demands on the scale on which they have arisen in the past; the question which naturally arises is whether, failing the provision of other equally attractive areas to live in people who would otherwise have settled in these subregions will be willing to live in hitherto less favoured parts of the sub-division or in places further afield within commuting distance. If they

Land Deficienty on Assumption

Table 22 The Merseyside and Manchester Areas—Deficiencies of Dwelling Sites up to 1981

| Area | Land Deficiency on Assumption of No Voluntery Migratian and Accepting Local Estimates of Shaws (1) | of Continuance of Past-1956 Voluntary Migration Trends and Accepting Local Estimates of Siums (2) |
|---|--|---|
| Messeyside Sub-Division | -65,860 | -29,360 |
| North Sub-Region South Sub-Region | -69,030 + 3,170 | -27,330 - 2,030 |
| South East Laucushire Sub-Division | -45,100 | - 2,700 |
| Manchester Sub-Region The Other Lancashire Sub-Regions Sulybridge and High Peak Sub-Regions Stockport and Altrincham Sub-Regions | -51,950 + 1,300 + 7,090 - 1,560 | + 1,670 +19,800 + 9,790 -33,950 |

v. R. All these figures allow for planned overspill movement between sub-divisions and sub-regions. For statistical purposes, the South East Lancashire sub-division.

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are not willing to do one or other of these things, the failure to provide further attractive dormitory sites within the sub-division may lead to an increase in the aumber of people migrating from

increase in the number the region altogether.

2. It would appear therefore on the bask of the ingene in Table 2 that first octoward voluntary migration from the sub-division as a whole condinues as in the past, the plasmed provision for overspill immore than adequate to mose fraint-dependent on the past of the p

10. Since these estimates of shortages are hypothetical in character, it is not possible to do more than make tentative calculations of the times at which they might occur. Alternative estimates have accordingly been worked out for sub-regions in Table 23. These take account of all planned oversell movements, including movements within the sub-division, but do not otherwise assume that decisionies is not me ub-regions will be offset.

by surpluses in others.

11. Broadly speaking, these alternative estimates

point to two conclusions. The first is that even if not voluntary migration from the Manchester sub-region ceases, no further major overspill softenes will be accessary in the short and medium serm of meet in models into the Stockport and Alfrichedum ulber-gloon continues as in the past, they will run short of land in the early 1970s. This means in effect that the more attractive areas at present available to private enterprise handing within the sub-devision will then in the

THE MERSEYSIDE CONURBATION¹

12. Of the two countrhations, however, Merseyside appears to be in by far the worse position. The overspill problem, which is almost entirely confined to North Merseyside, is enormous in relation to the size of the area. Notwithstanding plans for two new towas, several town develope. 18 or statistical surposes, the Mersewide sub-division. ment schemes, and major development projects for peripheral sites, there is a net deficit of over 29,000 dwelling itses to men tened up to 1941, even if net loss of population by migration continues. If this is stopped, a rel deficit of some 66,000 sites will remain to be met. Moreover, these totals must be regarded as minimum totals in view of the difficulty of matching surpluses and deficit in a countration cell the a rive with

limited communications across it.

31. The planning problem created by the needs of Merseyslde is the most acute land-use problem in the North West. On the one hand, there is a large existing shortage of dwellings, an enormous simum problem, and the prospect of an exceptionally high brith arts, all creating extensive demands for more land for dwelongment. On the other hand, North Mersey side is a closely built up the communication of first-classe Ramme land with the land of first-classe Ramme land which is also cent of a first-classe Ramme land which is also cent of a

14. It is not possible by analysis of the figures in Table 22 to judge what proportion of any extra isan required would be needed for public authority housing. However, the very high proportion

proposed green helt

Table 23 Sub-Regions in South East Lancashire where Land Shortages will occur before 1981

| | | S | b-Reg | ipm | | | | Yes |
|-----|--------------------------|-------|-----------------|---------|---------------|-----------------|------|-----|
| (a) | If current* | bal | lding | rates | contin | nec | | |
| | Stockport | | | | | | | 197 |
| | Altrineban | | | | | | | 197 |
| (3) | At buildin | g rav | les rec | nired | to m | et fu | ture | |
| | needs† ass | esso | d on t | be 855 | umpt | ion of | no | |
| | net popula | | move | GD 6 GT | | | | |
| | Mancheste | r | | | | | | 197 |
| | Oldham | | | | | | | 197 |
| | Stockport | | | | | | | 197 |
| | Bolton | | | | | | | 198 |
| | Leigh | | | | | | | 198 |
| (6) | At buildin | e rat | es reo | ofeed | on th | 1550 | mp- | |
| | tion of a trends pre- | cor | tinus ng bet | nce o | f mis 1956 | ration and 1 | 164: | |
| | Stockport | | | | | | | 197 |
| | Altrinobat | | | | | | | 197 |
| | | | | | | | | 197 |

Oldham 1979

* The current rate here – the mean annual building rate for the three years mid-1961 – mid-1964.

* Nervic toolsda local estimates of slams.

of North Merseyside's housing needs attributable to sium clearance and overcrowding suggests that a substantial part of any extra land required would be bound to be needed for planned overspill schemes. 15. The possible timing of shortages has been

worked out on the same assumptions as those for the South East Lancashire sub-division, and it has been calculated that if current building rates continue, no land shortages will occur either in the North Merseyside or South Merseyside sub-regions before 1981. If, however, building rates are to be raised to the level necessary to meet future needs as estimated, shortages will occur as follows:

On the assumption of no net papu-Year Berinnine lation movement North Merseyside . South Merseyside . 1987

On the assumption of net population movement as in the past North Merseyside .

South Merseyside . 16. These figures suggest that, whichever assumption is adopted regarding migration, any general overspill problem is a long-term one. Shortages may however occur in individual local authority areas somewhat sooner than these figures indicate. Liverpool Corporation have in fact calculated

that they will run short of land for council bousing in the early 1970s. GENERAL CONCLUSIONS

17. The land supply statistics show an overall surplus for the region as a whole which is the net product of deficiencies in the Mersey division and surpluses in the North Lancashire and South Cheshire divisions. It would bowever be an oversimplification to think of the bousing land problem in terms of a regional balance sheet. The problem is essentially a problem of the two conurbations, and surpluses of land far removed from the overcrowded towns of the conurbations

can do nothing to meet their needs, except to the extent that these more distant areas are able to provide sites for planned overspill schemes. 18. Some important developments to meet the needs of the conurbations are already in progress or approved. Merseyside will benefit from the new towns designated at Skelmersdale and Runcorn, from town development schemes at Widnes, Ellesmere Port, and Winsford and by the release of certain peripheral sites within the proposed green belt for North Merseyside. The Manchester conurbation will benefit from town development schemes at Winsford, Macclesfield and Crewe, and from a number of peripheral bousing schemes for which land has been released. In addition, a major overspill scheme at West boughton has been approved and proposals have been nut forward for developments under the New Towns Acts in the Warrington and Levland Chorley areas.

19 All in all, it appears that the short and medium term overspill needs of both conurbs. tions will be met, if all the schemes now in the nine-line so through. But even if it is assumed that the sub-divisions in question will experience a continuation of past voluntary migration trends, a very substantial further provision of land will be necessary to meet the needs of the Mersevside conurbation both in the nublic and private sectors, and more land will be needed for private enterprise housing in or near the Manchester conurbation. If it is assumed that there will be a complete cessation of net voluntary migration from these sub-divisions, then the overspill problems to be faced in both cases will be enormous

20. No attempt is made here to recommend one or other of the two assumptions regarding voluntary migration that form the basis of the alternative estimates of housing land requirements; nor are these assumptions necessarily the only ones which might reasonably be made. The sole object has been to illustrate the varying scale of the housing land problem depending upon the extent to which it is planned to hold within the North West the population growth generated within its main urban areas. Whether it is in fact feasible to plan to hold all this population growth within the region is a question which must be considered in the wider economic context. Only when decisions have been taken on strategic issues of this kind, will it be possible to make a firm assessment of future overspill needs (including industrial and other land requirements) and to decide in what ways these needs should be met. One thing is bowever fairly certain and that is that re-development peeds alone will continue to generate overspill from the conurbations well beyond 1981, and any decisions therefore on further major overspill schemes should be taken against the background of a long-term strategy.

12 The Green Belts

In considering where additional hand for urban development might be provided in the North West the future of the green bolt proposals which have been made must be taken into account, the proposal proposal proposals of the consideration of the to consider the establishment of green bolts wherever this second designable in order to check the growth of large built-up areas or to prevent engiphouring towns from merging into one another, or to preserve the special character of a 2. Fire min set of proposals for green belts

were drawn, up by local planning, authorities in the North West. These proposals, their aims and their history are summarized in Table 24 and the thirtory are summarized in Table 24 and the control of the third of

MAIN OBJECTIVES OF GREEN BULT PROPOSALS

3. Of the five sets of green belt proposals put forward for the North West four are designed to limit urban growth and coolsecance within the Mersey division; and of these four, the ones for Merseysids and South East Lancakine's obmitted most important. The belt proposed stretches from west to east across almost the whole division. It beens in tightly the build-up area of North Merseyside, encloses Warrington and Widnes, and fills a halpyrinhan series of gaps and intest on the northern side of the Manachetter countries.

Within the Meneysylak section of the belt is included the first-class farming land of the Manachetter countries of the Manachetter of the Manachetter within the ship-canal area, more first-class farming land is included, but the countries is less attractive. To the north of the Manachetter is statistically of the south of the Manachetter is statistically than on Meneyside, and desire quality of the soil nor that of the countryide ser is general billy

4. The Merseyaide and South East Lancashire groen belt is complemented on the south by two further proposals—the West Cheshire groen belt which is designed to contain growth in the Wirral and to prevent Chester and Elliamers Port from merging; and the North Cheshire groen belt which encompasses the southern past of the Manchester comurbation. The West Cheshire green belt links up with one proposed of the Manchester comurbation. The West Cheshire green belt links up with conspround the Manchester of the Manch

Counca.

5. The South Cheshire green belt is entirely unconnected with the others. It links up with corresponding proposals made by Staffordshire County Council for a green belt to limit the growth of the Potteries and the merging of nearby towns such as Alsaever and Kidstrove.

6. The Cheshire green belts include much pleasant flat countryside and good farming land. The Derhyshire green belt areas are specif to some extent by prominent development on his sides, but have a regged bleak charm of this rown. The quality of the soil bowever is generally poor here.



Fig. 27. Green belts: mid-1965
The proposed green belts are those which have been submitted formally or informally by local planning authorities for approval by the Ministry of Housing and Local Government.

Table 24 Green Belt Proposats in the North West

| Grew Brit | Main Perpose | Sketch Plan Apprentil an a Bash for Interfer Development Cantrol | Formal | Inguley | Person & |
|--|---|---|---------------------|--------------------------|---|
| f. Merepide and South East Lanesbire* | To contain the southern parts of the two connebations, provent the reuses connected peripheral towns and stop the building up of the corridor linking the connected linking the corrulations. | July, 1956 | September, 1960 | July/August. 1961 | Instrint soddistations have been pro- posed by the Mirister of Benedic and Local Coverment to Mariesynto section, primary to meet Everpood's housing needs. |
| 2, North Cheshire | To contain the southern part of the Manchester constrbution and to pre- vers morping of peripheral towns. | July, 1956 | August, 1961 | Postponed | Action also deferred on two related town neeps and consequential amend- ments to several existing town maps. |
| 3. Wost Cheshire | To contain the growth of South Mercystic (including the Wirral) and Chester, and to prevent Chouse energing with towas to the north. | July, 1956 | August, 1961 | Postponed | Figurative County Council taxes sub- mitted related proposits. |
| 4. South Cheshire | To prevent northward growth of Potteries and merging of towas such as Abager and Kidsgrove. | August, 1958 | Osiober, 1961 | September. 1962 | Oaly small areas involved, has related to informal proposals of Staffordshire County Council. |
| 5. North West Derbyshre. | To contain eastward growth of Man- chester and to proserve identifies of Glossop and New Mills. | November, 1956 | He January, 1964 | No arrange- ment made | Only small arens involved, but celtred to North Cheshire proposits at 2 above. |

THE FUTURE OF THE GREEN BELTS
7. Decisions on these green belt

7. Decisions on these green belt proposals cannot be deferred indirintity: otherwise neither the public nor the local authorities in the North with a line or with at central they can be relied when with come we will accent they can be relied to the control of the control o

future.

8. In the North West it is clear that, despite the provision already made for the accommodation of overspill from the conurbations, further large-

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scale needs will almost certainly arise before 1981. The extent and asture of the provision made to meet them must depend on whatever policies are adopted in relation to the future growth and distribution of population and employment within the region. Until a full strategy for the future development of the North West has been formulated, it would be premature to reach a final decision on the boundaries of green belts.1 But in the context of such a strategy green belts can be expected to have a vital part to play in shaping the massive growth likely to take place in the North West over the next twenty years or more, and in ensuring the availability of attractive countryside within easy much of the towns. The form of future strategy for the North West is discussed in the final chapter of this report.

By the same token, it would be premature to reach a decision on the South Cheshire groun belt proposals until decisions have been taken on the forms scale and nature of ground within the Potencies

13 Water supplies and sewage disposal: the Region's needs

Industrial and population growth in the North West on the scale which seems probable over the period up to 1981 will add considerably to existing demands on water supplies in the region. and on facilities for the disposal of sewage and industrial effluents. The inadequacy of present water supplies in certain parts of the North West has attracted considerable publicity in recent years, largely because of the controversial nature of some of the proposals which have been made for exploiting new sources. At the same time it is well known that some rivers in the region are seriously polluted by sewage and effluents. However, neither of these factors should prove an insuperable obstacle to further extensive development in the North West.

WATER

2. The greatest additional demand for water will arise in the Mersey division, where there is little or no possibility of developing substantial extra local resources. It follows that it will be necessary in coming years to transfer large quantities of water to this part of the region from elsewhere. 3. Possible sources for the additional supplies required include the rivers of Cumberland. Westmorland, North Lancashire and the Cambrian mountains of North Walts, Some ground water is available, but as no single source could be developed to yield a large quantity of water, the exploitation of these resources is unlikely to offer a practical solution. It is possible that ways and means may eventually be found of producing pure water from the sea at a cost which would be economic in this country, but there appears to be little prospect that this will happen in the near future.

4. Although only a provisional assessment of the water resources of the North West and meighhouring area has so far been made, it exems ideated that sufficient water could be made available to meet the needs of the regions up to 1941 and wellpowed. The problem to be faced in not likely belowed. The problem to be faced in not likely belowed of exceeding as far a possible the provision of supplies at a reasonable economic with the penervation of the amenities of the children of the problem of the property of the beauty. No attempt in made in this Report to beauty. No attempt in made in this Report to stanked to these two considerations.

5. It is possible that one or other of the schemes which have been proposed for huilding harrages across Morecambe Bay and the Solway Firth might enable enormous quantities of water to be impounded for use in the North West, Detailed investigations are at present being undertaken into the potential of these two schemes for water supply and into their likely cost. It seems unlikely that either would give rise to serious objections on amenity or land-use grounds. But a preliminary examination of the Morecambe Bay scheme suggests that, even when proper allowance has been made for the other benefits which would be created by the construction of a harrage, it would only offer the prospect of a satisfactory economic return if the likely cost proved to he as low as the most optimistic estimates so far put forward.

6. Walle it is possible, therefore, that the Morecumbe Bay or Solway Firsh proposals may provide a solution to the long-term water needs of the North West, it cannot be assumed at this stage that other means of meeting those needs will not be required. A comprehensive long-term plan for water resources in the North West seeds to be prepared, based on investigation of the fusibility of developing various post and sources and taking into account all relevant infectors, including effects on land use and amenity. The preparation of a plan of this kind and the carrying out of necessary surveys are now matters for the River Authorities and the Walter Resources Band set up under the Walter Resources Act, 1983. Then it, however, an urgest and for some additional water supplies to the control of the control of the control of the and provision for these will have to be made in advance of such as lone-term value.

7. It is important that future planning of the water resources of the North West should be dossey integrated within the broad framework of regional planning policies. Local vanishility planning future developments in the region. At the same time river substricties and water undertakens will need to know well in advance about the likely scale and distribution of future denand. It does not appear, however, from the data at present available that water resources will be a

major limiting factor in the choice of sites for future development in the region.

SEWERAGE AND SEWAGE DISPOSAL

8. If future population increases in the North West were distributed fairly uniformly throughout the different river catchment areas, it is unlikely that any significant increase in existing pollution problems would arise in the period up to 1981. Further population growth within parts of the region which are already densely populated is, however, likely to produce difficulties in certain catchment areas, more particularly in the Mersey basin and the catchment areas of the rivers Douglas, Darwen and Calder, Moreover any major new town developments wherever they are sited, will clearly necessitate new sewage disposal works. Substantial expenditure is therefore likely to be needed in the North West in the period up to 1981 on additional works to provide for the purification of additional sewage and trade wastes and to deal with serious existing nollution problems. But the information at present available does not suggest that any major engineering difficulty is likely to arise.

14 Other aspects of environment

The problem of outworn housing in the North West is part of a much wider problem of obsolescence and dereliction. This Chapter deals hriefly with some of the other more important aspects of it, hut concludes by stressing some of the region's compensating amenities.

TOWN CENTRE RENEWAL

2. Most of the larger town centres in the North West are in need of drastic renewal, and this is one of the key environmental problems of the region with serious social as well as economic implications. Although it has not been found possible to quantify the problem or to make detailed comparisons between the North West and other regions or between various places within the region, it is clear that the main need for renewal is within the inner areas of the conurbations, in the mid-South Lancashire towns, the towns on the northern side of the Manchester conurhation, and the main centres of North East Lancashire, Moreover, the results of the 1961 Census of Distribution make some tentative comparisons possible between the state of shonnine facilities in the North West as a whole and of those in other regions. Since shopping facilities represent a key element in town centre facilities generally, these figures provide some guide to the general state of town centres in the North West compared with other regions

regions.

3. The Census of Distribution showed in fact that of all regions in Great Britain the North West had the lowest number of population per shopping establishment, the lowest value of total retail sales per establishment, and the lowest value of total retail sales per person employed behind the counter (Table 38 of the Statistical Appendix illustrates the position). Bearing in mind the fact that the region has the highest density of population in the country, and the general trend towards larger establishments, economies in manpower, and more intensive use of floorspace, these figures suggest that in the North West there is a greater relative need for the modernization and reorganization of shep-ping facilities than in the country as a whole.

4. This is linked with the need to renew a wide range of other town centre facilities important to the life of the community. Indeed, the renewal of these other facilities, which are usually nonprofit making in character depends in a large measure upon the success of related plans for providing better shors.

5. Vigorous action is heing taken by local authorities throughout the region; renewal schemes for over 100 town centres, three-quarters of them in or around the conurbations are either in progress or in preparation. The most striking of these are the comprehensive long-term schemes being worked out, by expert teams of planners.

in progress or in preparation. The most stitking of these are the comprehensive long-term schemes being worked out by expert teams of planners for the centre of Liverpool and Manchester, In addition to these and other redevelopment plans within the communications, schemes are afoot for all the other main industrial towns in the region and nearly all include arrangements for the segregation of vehicles and podestrians. 6. But the were vasile on which means it being

planted and the large number of different planted and the large number of different them certain dangers. Some local authorities in them certain dangers. Some local authorities in them certain dangers. Some local authorities in the North West have drawn attention to the risk that the unco-ordinated provision of new shopping facilities may lead to a wastful use of resources. Local authorities preparing town centre renewal schemes do got always seek as expert assessment of likely trade, and only rarely is it possible for them to make a realistic appraisal of the role of their own centre in relation to those of others in the region.

7. It would be wrong to try to eliminate competition between shopping centres or to control developments according to a rigid plan which purported to dictate the future hierarchy of centres within the region. Some competition between centres is desirable to stimulate efficiency and some flexibility is necessary in planning to meet changing natterns of demand. Every renewal scheme should, however, be conceived against the background of a knowledge of broad trends and prospects within the region. For this purpose local authorities must have expert advice on matters such as the catchment areas of their own and other centres, the implications of other renewal schemes, the broad structure of retail sales within the region, and the possible effects of future changes in the volume and distribution of purchasing power. Unless this is done town centre renewal in the North West cannot be expected to proceed satisfactorily.

8. In the present state of knowledge no reliable predictions or recommendations can be made about the future growth and pattern of retail sales in the region. However, the Department of Town and Country Planning at Manchester University have recently published a valuable report which contains the results of some pioneering work in this field.1 The preparation of the background information needed as a basis for sensible decisions on renewal schemes will take some time, but this Manchester University report has pointed the way in the techniques which it employs for the analysis of catchment areas and the use made of basic data such as the results of the Censuses of Distribution and the Family Expenditure surveys. Further work needs to be put in hand so that a comprehensive picture of trends and prospects can be huilt up. The results should be of great value both to local authorities in the preparation of renewal schemes and to the Ministry of Housing and Local

Government in assessing them.

DERELICT LAND

9. Like most of the older industrial regions of Britain, the North West is scarred by large tracts of derelict land. This is land which has been so damaged by industrial or other development

that it is an eyesore and incapable of further use without special treatment (for example disputspoil hears, mineral excavations, areas of subsidence and ahandoned industrial installs.

tions). 10. There is a substantial amount of such land in the region which was rendered derelict before the introduction of the comprehensive arrangements for planning control provided in the Town and Country Planning Act 1947. There are no current figures which precisely measure the present amount of derelict land in different parts of the country, and consequently the Minister of Housing and Local Government asked local authorities in England and Wales in September 1964 to survey derelict land in their areas and inform him by 31st March, 1965, and thereafter annually, of the results of their surveys, When the first returns have been analysed, they should provide an up-to-date assessment of the total amount of dereliction and of the proportion requiring treatment; and will show how much was treated in 1964; and what proposals authorities have for treatment schemes in 1965. Subsequent returns should enable the net change in demlict land to be assessed.

11. A certain amount of information is already assilable from returns made by local authorities to the Ministry of Housing and Local Government in 1954 and from subsequent reviews of local development plans. From these sources it appears that there are now about 15,500 acres of derelier land in the North West. (This figure may require substantial amendment once the new returns have been analysed.) The greatest concentrations are found in areas such as the South Lancashire coalfield which are associated with long-established mining and manufacturing industries.

12. Under the system of development control introduced by the Town and Country Planning Act 1947, local planning authorities are enabled to attach conditions to planning permissions for development which require the owner of the land to take stens to prevent it from remaining in a derelict condition once the development is complete. Thus conditions may be attached to planning permissions for such types of development as mineral excavation and tipping designed to secure the restoration of land for further use or, where this is not practicable, the improvement

of the land by landscaping. Local planning outhorities also have powers for enforcing com-

pilanes with such conditions.

13. While pinning control thus checks much destiliction at source, the creation of a certain mount in novertheless insciapable. For example, nothing can be done under process a respective process of the control of t

14. Some derelict sites require treatment more preently than others-for instance, there is a greater need to deal with spoil beans in or near residential areas than with disused mineral excavations in the countryside. It is probable. bowever, that much of the existing total of derelict land in the North West is of such a kind and is so situated as to justify treatment on social grounds. Furthermore, in a region which is subject to beavy demands for land for housing development, it would be worth examining some of the larger areas of dereliction (such as those in the Leigh-Atherton-Tyldesley area) to see if they could provide extra land for open space, playing fields and bousing. But the financial return to be gained from the use of reclaimed land is often not high enough to justify the costs of reclamation commercially. The task of dealing with developion therefore falls in the main to the

local authorities. 15. Local authorities have a wide range of statutory nowers available which enable them to deal with derelict land in order to promote the general well-being of their districts. In most cases the costs of reclamation work carried out by local authorities have to be met from their normal financial resources. There are, however, two specific grants available for this work. Under the provisions of section 5 of the Local Employment Act 1960, the Minister of Housing and Local Government may pay grants of 85 per cent of the approved net cost of appropriate schemes to local authorities in development districts. In addition, under the provisions of the National Parks and Access to the Countryside Act 1949 the Minister of Housing and Local Government may pay grants of 75 per cent of the cost of appropriate schemes to authorities in areas of outstanding natural beauty, and the Minister of Land and Natural Resources may make similar payments to authorities in national parks. At the present time in addition to the development districts of Mersevside and Furness, there are national parks or areas of outstanding beauty in the Peak District and Northern Lanesshire. One or other of the two specific grapts might therefore be available in these areas which contain about one tenth of the present estimated total of derelict land in the North West, but some part of their derelict land may not qualify for grant or may not require treatment.

16. Lancashire County Council and county boroughs in Lancashire have made proposals in their development plans for the treatment of about 3,700 acres of derelict land in the period 1960-1971. In the last 10 years or so Lancashire County Council have treated about 1,000 acres 350 of which were reclaimed for further use and 650 acres of which were improved by treeplanting. They propose to reclaim by 1968 another 660 acres for further use, and to improve by tree-planting 100 acres a year. The National Cost Board have made a small financial contribution towards the Council's programme of treeplanting, and bave recently entered into discussion with the Council about arrangements for a comprehensive survey of spoil beaps as a basis for schemes of improvement to be carried out either by the Council or the Board. The Minister of Housing and Local Government has granted in all loan sanctions totalling about £440,000 in respect of schemes of recismation completed or now being carried out by Lancashire County Council. In addition, schemes in the region's development districts covering 147 acres of derelict land, and likely to attract grants of about £76,000, have recently been approved under section 5 of the Local Employment Act.

section 5 of the Local Employment Acc.

17. On the basis of existing information, therefore, the present position may be summed up as follows:

follows: (i) there may be at present about 15,500 acres of derelice land in the region not subject to planning conditions requiring aftertreatment: a substantial proportion of this is likely to justify some form of treatment.

on social grounds;

(ii) the amount of derelict land in the region is subject to continual addition:

(iii) about one tenth of the derelict land in the region lies within areas in which specific Exchequer assistance for treating derelict land is available; and

(iv) it is known that local authorities in the region are now treating derelict land at a rate of not less than 300 acres a year.

18. However, despite the vigorous efforts of certain local authorities, especially Lancashire County Council, little real impact is at present being made on the problem of dereliction over the region as a whole. Partly no doubt this is because Exchequer assistance is not generally available. Some local authorities in the North West have indeed strongly expressed the view that present arrangements for grant are inadequate, that clearance of derelict land should be regarded as a national responsibility calling at least for a general Exchequer subsidy and that unless more generous assistance is made available the region's dereliction problem will not be eliminated within the best part of a century.

19. But finance is not the only obstacle to more rapid progress. Some of the derelict land in the region could be treated at quite a modest cost, but some local authorities seem to lack a sense of urgency in dealing with dereliction in their areas. Since the efforts of an energetic authority can largely be nullified if its neighbours take no action, there seems much to be said for regarding dereliction as a regional problem, to be tackled by a concerted regional campaign.

DRABNESS, UNTIDINESS AND NEGLECT

20. Dereliction undoubtedly contributes to the general impression of drabness, untidiness and neglect which strikes visitors to many of the urban areas of the North West. But it is not the only cause. There is a large number of vacant and partially used sites in the towns of the region which are not derelict in the real sense of the word, but are simply in an untidy or neglected state. The amenities of many residential and other areas are depressed by failure to maintain the exterior decoration of buildings or to keep ancilliary features like fences and walls in proper repair. And there is a general lack of trees. The cumulative effect of many small items of neglect can seriously depress day-to-day living conditions and can lead to a natural tendency to let things slide so that already poor conditions are allowed

to deteriorate further. 2]. Much useful work bas been done in the last few years by the Civic Trust for the North West and its affiliated societies in tackling this problem. and it is clear that both local authorities and voluntary bodies have a vital part to play in the

future in fostering public interest in the improvement of general environmental standards, particularly in the worst areas. However, more still needs to be discovered about the whole question of dereliction and untidiness, its many senects, and its effect on the environment. Intensive sample surveys are to be carried out within selected areas of the region with a view to extenorising dereliction and untidiness more exactly and thus enabling better consideration to be given to questions such as the cost of restoration and the most appropriate agencies for carrying it out. Lancasbire County Council and St. Helens Corporation bave agreed to assist

in carrying out these surveys.

22. In relation to the particular problems of ageing residential areas where the property is hasically sound, the renewal design study being undertaken by the Ministry of Housing and Local Government at Deeplish, Rochdale, should provide useful information. This is a study undertaken by a joint team consisting primarily of architects but having the services of town planners, engineers, sociologists, quantity surveyors, and research and estate officers. The main object of the study is to learn more of possible ways and means of improving such areas without substantial redevelopment. It therefore differs from the pilot study initiated at Bolton, which is concerned with the problem involved in the seneral redevelopment of "twilight" residential areas, where the state of the property or a mixture of uses call for much more than modernisation.

AIR POLLUTION

23. Air pollution has been considered in the context of environmental problems since it is not only an unhealthy and unpleasant thing in itself, but it can also seriously affect the environment, make poor living conditions much worse, and generally discourage efforts to improve matters. In the North West it has undoubtedly had this effect, and smoke control programmes have a vital part to play in the general rehabilitation of the older industrial

and a publicion in the North Work has been a problem primarily centred on the two countrisians and the towns of Brutley, Blackburn and Person and there is a married correlation between the worst six of Brutley, Blackburn and between the worst six of the primarily constitution of the primarily constitution of the primarily constitution of North and South East Laneasier pollution has been aggraved by climatic pollution has been aggraved by the prevailing damp went, at it most frequently of the proposition of the primarily constituted pollution of furnities of the primarily drifts sometis the Pennine abyes and lodges over these towns, thus polluting their air and

25. Some local authorities in the North West base taken vigorous action to deal with atmospheric pollution. By March, 1964, "black area" authorities had made smoke control orders covering roughly 20-5 per cent of their premises. In the course of 1964, however, there was a decline in the making of smoke control orders, both in the North West and in the country as a whole.

whom.

A. The course for this decilies as not all suggested date. The explanation may like its extend tend date. The explanation may like its excellent of the course of t

sed gas coke will burn in it.

7. To meet this situation, revised arrangements were introduced in 1963 for the payment of indication of reactive open gate Patis is increasing and it is estimated that within two years supplies of open fire that should be adequate to meet the sound of the patient of air political patient of the patient of air political patient of the patient of air political patient of the patient of the patient of air political patient of the patient of air patient of the patient of the patient of air patient of the patient

particularly desimble that co-ordination in smoke control programmes should be achieved so that efforts to reduce pollution in one local authority area are not offset by lack of action in neighbouring areas.

BROAD CONCLUSIONS

28. Siums, general obsolscence, derediction and engiest all adu pto a formidable problem of environmental renewal extending, over a wide case of the region. It is plain that this problem of the region. It is plain that this problem question which arises it whether it is feasible to break the back of it is may 10 to 15 years or whether the turn of another century will find Lannashire still struggling under the grim herings of the industrial revolution. For unless the control of the industrial revolution. For unless the control of the industrial revolution is for the increased, this property, with all its implications,

COMPENSATING ATTRACTIONS

must be fored

29. It would however be wrong to conclude this chapter on such a pessimistic note. The problems of the region have been described and emphasised because they are what call for action. But it is only right to balance the impression created by dwelling for a moment on some of the brighter penects of the environment of the North West Great though the problems of industrial Lancashire are there are more compensating amenities than many people are aware of, not least the proximity of some of the finest and largest sandy beaches in the country and the accessibility of the Peak District, Yorkshire Dales, Snowdonia and Lake District National Parks, areas which will become increasingly easy to reach with the development of the road network and the spread of car ownership. Already, in little over half an hour's journey from Manchester one can be wandering over the Pennine moorlands, or surveying the Cheshire Plain from a hill top, and the development of M6 means that trips to the Lake District can be readily made within a single day. Although Lancashire itself is scarred by the industrial revolution, it does of course contain not only part of the Lake District itself, but also the Langaster Fells and the rich farming lands of the South West Lancashire plain. Even within some of the main industrial areas a journey of only a mile may take one from drabness into

unspoiled country landscape.



Part Six Conclusions



15 The Region summed up

BORTE ATTO

Demographic trends clearly reflect the sharp change in the fortunes of the North West region which tool pince early in this century and which was hastened by the First World West. Throughout the infection country and which was been proposed to the proposed of the country out the infection of the proposed of the proceeding the proposed of the proceeding the proposed of the proteed of the proposed of the proteed of the proposed of the proteed of the proteed

part in depressing its rate of population growth It was heaviest in the 1920's, when on average over 15,000 more people a year were leaving the North West than were moving into it. The rate of net outward movement fell to about half this level in the thirties, but until the last few years there was little evidence of any further fall. Since the beginning of the 'sixties, however, there have been signs that net migration from the North West may be coming to an end. Migration has affected the North West much less seriously over the past half century than it has Scotland, Wales and the Northern region. Between 1951 and 1964 the net outward movement from the North West amounted in all to about 120,000 people or under 2 per cent of the region's present population. At the same time the region's population actually increased by over 280,000 or considerably more than twice as much as the migration loss.

Net migration is merely the balance resulting from very much larger gross movements of population between regions; and it is sometimes claimed that the North West loses qualitatively from migration, because it is mainly younger. more enterprising and skilled people who leave the region, and they are not adequately replaced. This may be true so far as certain parts of the region are concerned, particularly those, like North East Lancashire, from which population has been drifting away for many years. But other parts of the North West have been gaining population as a result of migration and them is no conclusive evidence that the region as a whole has been suffering from any serious loss of this kind. Certainly, in terms of numbers a net outflow of about 120,000 people over thirteen were scarcely represents a major problem. It may be a symptom of some weakness in the region's economy, but is hardly a cause of it. And since the North West has a serious housing problem. some small outflow of population may even be

beneficial from the region's point of view.

4. In any case, a slow rate of natural increase has been much the more important resson why population growth in the North West in recent years has been at a rate well below the national average. Death rates have been a good deal higher than in England and Wales engerally Indeed, when the figures have been adjusted to take account of the effects of the age, sex and marital structure of the region's population, death rates in the North West in the period 1951-62 are shown to have been on average almost 20 per cent higher than nationally. The probable explanation is that the vast majority of people in the North West live in urban areas. Moreover, many of them have over the years suffered from poor housing conditions and from serious pollution of the atmosphere. The main diseases from which death rates have been particularly high in the North West have been bronchitis, certain forms of cancer, influenza and

heart conditions, and these are all diseases for which death rates are high in conurhations and large towns throughout the country. But more research could well be undertaken into this very fundamental disadvantage from which the North West suffers, particularly as there are signs that death rates in the region are tending to move even further from the national average. 5. Within the region there has been a clear, but gradual, shift in population patterns in the postwar period. Population has been declining in the older industrial towns on the Pennine slopes to the north and east of Manchester, and in the centre of the Manchester conurhation itself. This decline has mainly been the result of outward migration, but in North East Lancashire, where the rate of decline has been highest, the ahnormal age structure of the population has meant that deaths have exceeded births, so that natural decrease has reinforced the effects of migration. Migration has also caused a slight decline in the population of Furness. On the other hand, the areas of most rapid population growth have been the southern fringes of the Manchester and Merseyside conurbations, the coastal towns of the Fylde, and certain urban areas such as Preston, Wigan and Warrington on the main North-South communications route. There has also been a considerable increase in the population of the northern part of the Merseyside conurbation, despite a strong tendency for people to move southwards out into the Wirral and

adjoining parts of Cheshire.

6. Looking sheets, the population of the North West is likely to increase substantially between now and the end of the century. Even if net out-ward migration continues on the scale of recent persons of the control o

EMPLOYMENT
7. The ability of the North West's economy to provide sufficient new jobs to support population growth on this kind of scale will clearly be one of the most important influences on the rate of misration in future. Between 1953 and 1963 the

rate of employment growth in the North West was well below the national average Only 3,000 (1900 per level of the North West of the North West of the North West of the Other regions of Great Britain did employment increase more allowly. But increase more allowly. But increase more allowly. But increase more index providing a significant with the region of the North West, the region of the North West, the region generally did not unfer from the lings to more provided to the North West.

MANUFACTURING

8, Several of the North West's traditional industries have again been reducing the size of their labour forces in recent years-particularly coal-mining, shiphuilding, port operations and shove all the textile industry. The loss of nearly 140,000 jobs in textiles was by far the biggest sinele factor explaining why manufacturing employment fell by 4 per cent in the region between 1953 and 1963, while it was increasing nationally by over 74 per cent. Despite this full. manufacturing continues to he much more important in the North West than in Britain generally, providing 46 per cent of the region's total employment as compared with only 38 per cent in the country as a whole. 9. But quite apart from textiles, other sections of

manufacturing in the North West have shows most signs of warkness. Out of the thirteen manufacturing Orders in the Standard Industrial Castification, only four increased their labour forces faster in the region than nationally between 1953 and 1983. And even of these four, two (fa food industry and the bricks, protury and glass group) fell behind the national growth rate after 1959, while a third (vehicles) grew rapidly in the North West and yet also green graphly in the North West and yet as magnet me noter industry to set up major new plants on Metreytide.

10. Statification showing the number of emmloyers

10. Statistics stowing the lander or compared to implement an available only or considerable of the consid

over the country as a whole. It therefore looks as if future employment growth in manufacturing in the North West will be very dependent on the page at which the region's industry proves able to diversify into more rapidly expanding types of production. Further research is needed into

this whole question. 11. Substantial changes in fact occurred during the 'fifties in the structure of manufacturing employment in the North West. The influence of declining sections of manufacturing on the region's economy has become a good deal weaker. New firms which settled in the region between 1953 and 1963 are now providing about 50,000 jobs in a wide range of industries, most of them with good growth prospects. In particu-Jar, the North West has become a major centre of the motor industry and there are signs that this has been to stimulate the development of component suppliers in the region.

12. But although the North West's manufacturine base now seems to be sounder than it was ten years ago, by no means all its structural disadvantages have yet disappeared. Employment in manufacturing in the region will probably continue for some time to grow more slowly than in Britain generally, and may even decline further

PRIMARY INDUSTRIES

13. The primary industries-chiefly agriculture and coal mining-no longer provide a very significant proportion of the North West's total employment. By increasing their productivity they have reduced their labour forces very rapidly in recent years and this process of comtraction seems likely to continue. But the loss of jobs to the region in this section of its economy will be fairly small in total.

SERVICE INDUSTRIES

14. While employment has been declining both in manufacturing and the primary sector in the North West, nearly 140,000 more people had iobs in construction and the service industries in the region in 1963 than ten years earlier. By 1963, the service sector was providing 52 per cent of the region's total employment, compared with 56 per cent nationally. But even in construction and services, employment grew more slowly in the North West than nationally between 1953

and 1963-by just over 10 per cent, as against 15 per cent

15. Again, part at least of the explanation for this slower rate of growth lies in the fact that the North West suffered from structural disadvantages in the service sector. In Great Britain as a whole, transport and communications was the only service group where the size of the labour force declined between 1953 and 1963; it was also the only form of service employment which was relatively more important in the North West than nationally. However, none of the expanding service industries grow so rapidly in the major as nationally over the decade, although there were some signs of an improvement after 1959. Further detailed study is needed before the prospects for future employment growth in services (especially office jobs) can be properly assessed, but there seems to be no reason to suppose that the number of people employed

in this sector of the region's economy will not continue to increase steadily, in line with national EMPLOYMENT TRENDS WITHIN THE REGION

and international trends.

16. Within the region, the pattern of employment growth and decline in the post-war period bas been broadly similar to the pattern of population change. Employment has increased most rapidly in the coastal areas of Lancaster/Morecambe, Southport/Ormskirk and especially the Pvide. but in absolute terms the numbers of workers in these three sub-regions remain fairly small. Merseyside has also had growth at a rate well above three times the regional average, but this has been insufficient to match the natural increase in the area's working population and there has been substantial outward migration and persistently high unemployment. Moreover, much of the increase in employment which has taken place on Merseyside has resulted from new projects carried out in the area by firms from other parts of the country.

17. Employment in a large part of the region. mainly to the north and east of Manchester, bas been much affected by the decline of the cotton industry. But although the number of jobs available in this area actually decreased between 1953 and 1963, serious unemployment was not a persistent problem, since the size of the working population bas also contracted. In North East Lancashire the loss of jobs over the decade was as high as 10 per cent and even in 1963 the textile industry still provided almost 30 per cent of its remaining employment. 18. In the central and southern part of the region,

including much of Cheshire, Wigan, Warrington, St. Heless and the southern half of the Manchester construction, employment increased moderately between 1953 and 1963. But in Forness there was little or no employment growth in this period and the area remains highly dependent on Vickers' shipyard and engineering works in Barros.

PRODUCTIVITY AND INCOMES

19. There is some evidence that output per bead in the North West is slightly below the national average, but it appears to have been increasing as rapidly as in Britain generally during the 1950's. Individual incomes and earnings in the region also seem on average to be rather lower than in the country as a wob.

20. However, in the early 'fifties a much higher proportion of the total population was at work in the North West than nationally, and family incomes seem to have been slightly higher than the national average. Over the past decade employment opportunities for women in particular have not expanded as rapidly in the region as in Britain generally, largely because of the contraction of the cotton industry which affected female employment much more severely than male employment. Consequently, although activity rates for both men and women remain higher than the national average, the North West's relative position in terms of bousebold incomes has deteriorated. The average money income of families in the North West now appears to be a little below the level in the country as a whole, but there are few signs of any sluggishness in the growth of expenditure in the region.

EMPLOYMENT PROSPECTS

2.1. It is a slightly less precarious business to try to predict what increase can be expected to occur in the supply of labour in the North West ower the years shand, than to attempt a forecast of how rapidly employment opportunities and the demand for labour in the region are likely explosed. But both exercises cannot be other than highly sweepled.

22. Provisional projections suggest that even if no culvared migration comes to an end there is unlikely to be more than a small increase in the mappower resources: available in the North West in the period up to 1971; but that towards the end of the "verenties" amore rapid increases would be likely. Renewed migration could even lead to a fall in the region's libouru muggly in the next few years and would considerably reduce the growth which would otherwise court after

1971. 23. As for the demand for labour, if total employment continued to grow in the North West at the rate experienced in the period between 1959 and 1963, it is possible that sufficient extra lobs would be created to match virtually the whole of the natural increase in the region's labour supply up to 1971, but not enough to allow in addition for a reduction in unemployment. And in the 'seventies the natural increase in the region's labour force might again outstrip the growth in employment. If employment increased more slowly than this, for example at the rate experinned over the whole decade 1953-63, them would be a considerable shortfall of jobs in the North West even in the period up to 1971, unless there was not migration away from the region. Two other arithmetical projections of employment growth in the North West, based on rather more elaborate assumptions, yield widely different results; one suggests an increase of nearly 190,000 in the number of jobs available in the region in the period between 1963 and 1971, while the other indicates a loss of nearly 60,000 jobs in the region over the same period.

24. Purely arithmetical calculations of this kind need to be supplemented by detailed knowledge of industrial prospects in the North West and it may be desirable to carry out extensive consultations with firms in the region to discover more about their plans for the future. But since there have been signs in recent years that the balance in the region's economy between expanding and declining sectors has been gradually moving in favour of faster overall growth, there is little reason to suppose that over the North West as a whole the increase in the demand for labour in the years immediately ahead will fall short of the supply, unless some serious and unforeseen setback occurs. In some parts of the region, especially Merseyside, continued efforts will probably be required to try to ensure that full use is made of the available labour resources; but in other areas increasing labour scarcity may arise.

794VERORT

25 The North West generally has derived considerable benefit from major transport improximent schemes which have been carried out in recent years. In particular, the M6 motorway now runs through the whole length of the region; the electrification of the main milway line to Birmingham and London is nearing completion: and substantial sums have been invested in providing Manchester and Liverpool with first-class airport facilities. There are still some remaining deficiencies in the region's links with the rest of Britain but most of these will eventually be removed by the completion of further schemes included in the Ministry of Transport's announced programmes. The Lancashire-Yorkshire motorway, on which advance works are expected to begin within the next two years. is likely to have an especially important influence on the future development of the North West. It will pass through the northern part of the Manchester conurbation, close to a number of the old "cotton" towns, and for the first time will bring the two heavily populated areas of the North West and the industrial West Riding within easy reach of one another by road, thus creating an entirely new east-west axis in the national road network. The new towns which are to be created in the North West will all be well placed in relation to the existing and proposed motorway system and should baye excellent road communications right from their inception.

26. Moch the mort difficult and appendre task in the transport field which transits to be tackted in the North West is that or easily congestion within the two consultations. Whilst more within reads with two consultations. Whilst more within reads with be needed, it is deer that early the control of the

to lead to the adoption of plans for the development of a comprehensive transport system for each conurbation.

27. As far as Merseyside is concerned special attention will have to be given to Liverpool's position as one of Britain's two leading ports for export cargoes. The efficiency of the port is likely to continue to be of great significance to the national economy. For the immediate future it appears that priority needs to be given to measures which will reduce delays within the port area itself, but it will be important in the longer-term to ensure that port traffic is not affected by consession on roads leading through the conurbation. Since Merseyside's status as an industrial centre is also likely to incresse, further improvements may well become necessary in its road links with the national motorway network. 28. Indeed, it is clear that the need for essential industrial and commercial truffic to flow freely between the main centres of industry and normlation throughout the whole country most continue to be the first consideration in allocating the resources available for road improvements. But there is, in addition, a growing problem of weekend and holiday traffic which already puts a beavy burden on the transport network of the North West. The proximity to the large centres of population in the region of some of the country's most attractive holiday and recreational areas, such as the Lake District, Snowdonia, the Fylde Coast and the Peak District, is a real homefit to those living and working in these often depressing towns. The well-established trend towards increased leisure, counted with a rapidly increasing number of car owners, will enable more and more people to enjoy their natural desire to get away from the towns into the country or to the sea. This desire can all too easily become frustrated by difficulties of access due to congested roads, and to inadequate foresight in planning for a motorised age within the boliday areas themselves. Insofar as planning should provide for better living conditions for people, both in their work and their leisure, as well as for economic expansion, further provision will have to be made for their recreational traffic and it must therefore become a factor in deter-

mining bow resources for roads should be allocated.

29. The North West's principal airports will continue to be those at Manchester and Liverpool, at the very least until the mid-1980's. Indeed. they may not reach their full caracities until even later and there should be no need for some time to come to consider the development of a third major airport in the region. Manchester and Liverpool airports are not ideally situated in relation to the region as a whole, but given the expenditure already incurred and planned for them it would be uneconomic to replace them by developing the former military airfield at Burtonwood. In any case they will become more ensily accessible as the region's road system is improved and there may also be scope for the growth of feeder services from other parts of the region. Blackpool airport already provides useful services and has sufficient capacity to provide for growth in traffic demand in the northern part of the region.

HOUSING NEEDS 30. Even if net outward migration from the North West continues, the housing needs of the region in the period up to 1981 will be enormousabove all because a vast programme of slum clearance has still to be carried through. A revised estimate made locally shows that there are roughly 440,000 dwellings in the North West which are already unfit to be lived in or will become so by 1981 - about one in every five in the region. In some areas, every other bouse may need to be replaced. A more generous standard of minimum needs would bring the number of obsolescent houses up to well over half a million, or about a quarter of the region's present stock. Though some of the other older industrial areas of the country face slum problems which are relatively as bad as this, in terms of sheer numbers the position in the North West is without parallel, except perhaps in the West Riding. Of the 24 million poorest dwellings in the country. about 20 per cent are in the North West.

31. About three-quarters of the region's slums appear to be in the Mersey division and both conurbations have tremendous clearance problems. However, there is some evidence that the slum problems of a number of smaller towns in the region, especially in North East Lancashire, the Wigan-Warrington area and the old "cotton" belt to the north of Manchester, may be more serious than is locally estimated and in relative terms may be even worse than those in the inner areas of the two conurbations.

32. Existing housing shortages in the North West are also heavily concentrated in the Mercey division and are particularly serious on Mersey. side. Altogether it is estimated that about \$1 000 additional dwellings would be needed in the region to clear the present shortages. 33. The number of additional dwellings required

in the North West in the period up to 1981 to ment the increase in the number of households resulting from population growth is likely to be shout 280 000 if not outward migration come to an end. If migration continues at recent rates about 230,000 extra bouses would probably be needed

HERAN RENEWAL

34 The problem of outworn bousing in the North West is part of a wider problem of obselescence and dereliction in the older towns of the region. Most of the larger town centres in the North West are in need of drastic renewal and over one bundred comprehensive schemes for redevelopment are in progress or in preparation. shout three-quarters of them for centres in or around the two conurbations. Renewal on this scale would add considerably to the future demands which will be made on the construction industry in the region. There is also a risk that it might lead to a wasteful use of resources. The provision of new shopping facilities is usually one of the key elements in any redevelopment scheme, since other town centre facilities which are important to the life of the community (for example, hotels, theatres and new open spaces) do not normally offer the prospect of a hish mough economic return to be able to stand or their own. But the North West already has more shops per head of population than any other nart of Britain and the average value of each shop's retail sales is lower than in any other region. It would therefore be valuable if further research could be put in hand, along lines already explored in a study by Manchester University, with the aim of showing what scale of new shopping facilities it would be reasonable to provide in the region and what the future catchment areas of different centres could be expected to be The results of such research could provide valuable background guidance for those who have to reach decisions on renewal schemes, without being used as a basis for any attempt to suppress healthy competition between different shopping centres.

DERELICT LAND

35 Despite the vigorous efforts of some local authorists, particularly Lansabine County Council, large areas of land in the North West remain in a derelie state and are milk for further use without special treatment. Derelietion is an important element in the general impression of unicidiness and neglect which strikes visitors to the region. The wastage of land seems appointly traigic in the denset/populated parts of the region. The succe for all kinds of uses is at a

nremium. 36. At present no concerted regional campaign is being mounted to deal with this problem-Partly, no doubt, this is because Exchequer finance for treating derelict land is available only in the cases of national parks, areas of outstanding natural beauty and development districts, and even schemes in development districts only qualify for a grant if it can be shown that they will directly contribute towards an improvement in employment prospects. While assistance from the National Exchequer for the improvement of the region's physical environment must be mainly devoted to the major problem of housing, there is no doubt that the problem of derolict land is an urgent and serious one.

land it an urgent and serious one.

37. The lack of fester progress in the North
West seems partly to be due to a lack of a sense
of urgency on the part of some boat authorities.
of urgency on the part of some boat authorities,
largely be multiful if its neighbours take no
action, there seems much to be said for regarding
the treatment of derelict land as a regional
problem. There may be scope for the local
authorities in the worst-affected areas of the

region to agree on a programme of treatment which would be persend over a previously required of years, would aim to deal with the worst case first, would aim to deal with the worst case first, which was a support of the property of the p

THE GENERAL ENVIRONMENT

33. In addition to the reducation of destinaland, much more could also be done inular manufactures and interpretation of the count in undramatic and inaspective ways to improve the general appearance of the towns in the North West. The Crick Treat for the North West and the Crick Treat for the North West and done in a number of apositic cases. And again some local authorities have extremely good corrects, whereas others do not. The outsider, while making every allowance for the undoubter, of the contraction of the contraction of the other towns takens, cannot help weedering on coasion whether they try to make the most of what they have.

39. It is also disappointing that progress in dealing with air pollution in the North West has slowed down in the last year or so. Given the climatic disadvantages from which much of the region suffers smoke control can play a particularly valuable part in improving general living conditions. There is therefore every reason why local authorities should press abead with action under the Clean Air Act as rapidly as possible.

16 The future of the Region

The purpose of this report is not to make recommendations for policy, but to present and analyse the basic data from which future plans for the region must start. This chapter discusses some of the main factors which will have to be taken into account in drawing up such plans.

HOUSING

2. The need to improve its housing stock is the region's dominant problem. There is probably no other comparable part of Britain where the influence of bad housing is so all-pervasive and depressing and affects on many people. The first—and lasting—impression of a visitor to the region is one of astonishment that the housing conditions he sees around him can still exist in a relatively prosperous part of an advanced industrial country.

3. Slum clearance will be by far the higgest element in the region's housing needs over the next fifteen years or so and the task of dealing with the slums will fall almost exclusively to the local authorities. The scale of this task is large in relation to the local authorities' current housing output and the main emphasis for the future must be on the public sector building programme.

4. Recommendations about the rate at which housing should be improved in the region are outside the scope of this report. The decision taken must depend on how much of its recourses the country can afford to dervote to housing and what thate of this will be needed for other what the country can afford to dervote to housing and of the North West there is a clear need for a high recommendation of the North West there is a clear need for a high received in the problem in ten years would need the household of from the North West the problem in ten years would need a formidable effort, but measured against the

scale of post-war reconstruction in certain parts of Europe it should not be impossible to atain. It would, however, require not only substrated additional resources, but also radict clanges in the structure and methods of the clanges in the structure and methods of the construction properties of the construction of public authority hullding programment of public authority hullding programment or public authority hullding programmate available, these could well prove actions limiting factors on the rate at which the problem

could be solved. 5. The scale and nature of the region's housing problem are such that it should offer a uniquely favourable opportunity for the use of nontraditional huilding techniques on a very lares scale. Some local authorities in the region-most notably Manchester and Liverpool City Councils -are tackling their housing problems energetically and there has been encouraging progress in establishing consortia of local authorities for housing purposes. But the job to he done in the North West is so large and complicated that if a decision in principle were taken to step up the rate of sium-clearance it would seem desirable to take a fresh and thorough look at the organisational problems involved and see what administrative and technical system would be hest-fitted to achieve the desired result. Without some such examination there is a real risk that scarce resources-of money, materials and technical skills-might be misdirected on a large scale to the detriment of both the region and the country as a whole. The current re-examination of local government structure in the region by the Local Government Commission may have an important bearing on the ability of housing authorities to deal with the problems they have to face. 6. However, whatever the scale of increase in

building rates which may prove practicable,

techniques of conservation and improvement have a wind part to play in extending the life of the many older dwellings in the region which are deficient but capable of assistancery rehabilization. The scale of the real sum problem is such that the region cannot affent to be wasteful of its existing asock of dwellings. If the life of many of them can be extended, this will bely to relieve the caromous bacton which will fall upon the construction inclusive; in the next tale one of these normarchics inclusive; in the next tale one or fifteen

INDUSTRIAL DEVELOPMENT

INDESTINAL DIVISION OF ANY TO THE PROPERTY OF THE PROPERTY OF

8. The main imputus for this meat come from those who over and direct existing firms in the region. The North Worls is fortunate in bowing a region and varied informal hase from which no large and varied informal hase from which no first the region than for some of the other old industrial areas of British to look to the Government to direct activity from other parts of the content of work activity from other parts of the meant and the content of the c

9. Indeed, some help in attracting industry from outside the region will still be required. A considerable proportion of the future increase in the region's labour supply will arise on Mersystide, where, despite outward migration and substantial growth in employment, there has nonetheless been persistent unemployment for many years. Since the labour force nationally will be increasing only slowly in the next decade, it will be more than ever desirable that the manpower resources.

available on Merseyside should be fully engaged in productive employment. But the analysis made in this report indicates that it is unlikely that employment growth generated within the region will be sufficient to achieve this. Experience in recent years has shown that the basic facilities on Merseyside itself-especially those of the port-and in the area round it are attractive to industry. Given a continuation of present efforts to encourage industry from other parts of the country to establish new units which will employ Merseyside labour there is no need for pessimism about the prospects for achieving a permanent solution to the area's unemployment problem. 10. In determining the area within which any special measures to encourage new industrial developments should be applied in future, consideration must be given to the increasing difficulty of finding suitable industrial sites within the present Merseyside development district, and to traffic conditions. Existing physical congestion might be seriously aggravated by the siting of new industrial projects in some parts of Merseyside, especially in the centre of the conurbation There are signs that Merseyside workers are gradually becoming prepared to travel longer distances to work; many already find their jobs in Ellesmere Port which is outside the development district's boundaries. And as the populations of Skelmersdale and Runcorn new towns begin to build up, the area within which Merseyside labour will be seeking employment will

become wider still. REGIONAL STRATEGY

11. In the period up to 1981, shortage of land is likely to be almost entirely a problem affecting the Manchester and Merseyside conurbations. It will have two main aspects-the need to provide for planned overspill schemes which will largely be required for slum clearance purposes, and the need to provide land for people who move out of the conurbations on their own initiative and want to buy their bomes and commute to work. Some important steps have already been taken to meet the contribations' needs, including decisions to carry out four major schemes under the New Towns Act as well se a number of smaller developments. By and large this provision should be adequate to meet the demands of both conurbations at least until the

mid-1970's. Indeed, if past migration trends continue no further major public overspill schemes are likely to be needed for the Manchester contribation until after 1981, although a modest amount of additional land for private enterprise housing may be required earlier, when the favoured southern suburbs reach the limit of the population they can accommodate. As for Merseyside, shortage of land both for public authority and private enterprise building is likely to become a major problem again in the late 'seventies, even if migration goes on at the same rate as in recent years. But if migration came to an end, both conurbations would run out of land sooner and would again be faced with enormous overspill problems by about the middle of the 'seventies. And after 1981, in any case, both will continue to generate a demand for more land. 12. Meanwhile, however, although individual

areas have urgent problems, no key decisions have to be taken in the short-term. There is time for a long-term planning strategy for the region to be evolved which will provide a frame of reference for future decisions on specific cases. Such a strategy seems to be more than ordinarily necessary in the case of the North West because of the complexity of its overspill problems, the degree of urbanisation which already exists in the two conurbations and the industrial belt around and between them, and the large number of different local planning authorities affected. There is probably more risk of piecemeal decisions leading to poor overall development in the North West than in most other parts of the country.

13. Future strategy will need to be settled in the context of national policies affecting such matters as the distribution of industry, the housing programme and the use of land for agriculture and other purposes. From the standpoint of the region the main need is to evolve a planning strategy which will, so far as possible, support the twin objectives of providing better living conditions for the people of the region and stimulating faster economic growth. Policies for land use, urban renewal, transport, housing and industrial development must keep in step and every effort must be made to ensure that they complement and support each other throughout the region. Physical planning policy in the North West should take account of the prospects of securing sufficient industrial employment and

should recognise the desirability of encouragine industry to site new plants in locations which are likely to be favourable to future growth. Distribution of industry policy should take account of the complications involved in carrying through large overspill operations successfully. And large new developments should, wherever possible be so placed as to take full advantage of the massive investment which is being made in improving the region's transport network. (In particular it should be borne in mind that the Lancashire-Yorkshire motorway will in the 1970's introduce a strong now east-west dimension into the region's road network which has up to now been nondominantly based on a North-South axis.) 14. It is important that, wherever possible, the heavy investment expenditure which will be required in order to meet future overspill needs in the North West should at the same time contribute towards the more rapid renewal of some of the region's older towns. The town development scheme at Widnes and the proposal for the expansion of Warrington to take oversail from the Manchester conurbation are example. of this approach. However, to graft large-scale expansion on to an existing town is a very complex and expensive planning operation, and many older towns in the North West would not be suitable for further expansion of any size either because there is insufficient land in their immediate vicinity which could readily be developed or because they are in areas which are inherently rather unattractive as places to live in 15. The recent decision to create a large new town in the Levland/Chorley area will take advantage of the excellent opportunity which this location offers (particularly in view of the strategic position it will occupy in the motorway network) for a development which will provide attractive living conditions for a big incoming population and which at the same time will be well placed to stimulate faster economic growth in a part of Northern Lancashire where a great deal of renewal and reconcration is needed There appears to be room in the Levland/Charley area

to accommodate a population increase of some-

thing over 150,000; and if the new development

is planned in relation to the renewal of existing

towns like Preston and Blackburn as well as

Leyland and Chorley themselves, the outcome

could be a modern city complex with a popula-

tion of about half a million. This would provide

a counterbalance to the two conurbations further south. The area as a whole already has a sizeable and varied economic base and the new town should prove very attractive to new projects since its communications, present and proposed, are excentionally good. Both the M6 and the main London-Glaseow railway already ness through the Levland Chorley area, and by the early 1970's the Manchester-Preston motorway will have been completed and will provide rapid access also to the Lancashire-Yorkshire motor-

way. 16. However, if Leyland/Chorley and the other new town developments in the North West are to succeed, a careful watch will be required throughout the 'seventies to ensure that new employment opportunities become available in step with the rapid huild-up in their populations Several thousand new jobs a year will be required for Skelmersdale and Runcorn new towns at least until the late 1970's, while the Leyland! Chorley area's need for additional employment will be very large until well beyond 1980. Given these existing commitments, it bardly seems fensible to think for a good many years to come of building another new town at any considerable distance from the conurbations, where its population growth would have to be matched by the provision of jobs.

17. This is obviously not a matter on which it is possible to come to a firm conclusion so many years in advance. By the late 'seventies it might be possible to begin building a large new town in the South Cheshire or North Staffordshire areas, perhaps designed to drawpopulation both from the North West and the Birmingham area and hased on the expansion of Midlands industry. but this must depend partly on how regional planning for the West Midlands develops. Or the success of Leyland/Chorley might already be so assured by then that it would be reasonable to think of further development in the north of the

region, for example a completely independent 18. But at present it looks as if both public and private overspill needs in the North West for which provision has yet to be made in the period up to 1981 will have to be met by developments within daily travelling distance of existing industrial centres in the region. One possibility would be to push out into Northern Cheshire and develop settlements-either large or small-

urban complex centred on Lancaster

which would at least initially be dormitory areas from which much of the working population would commute back into the conurbations to their jobs. Indeed, a good deal of private development has taken place there already, and plans are under way for settling planned overspill from Manchester in various districts within commuting distance of the city. But there would be great disadvantages in accepting further extensive development in North Cheshire, Much of the countryside is very attractive and quite apart from its bigh agricultural value it provides a valuable recreational area for the populations of the industrial towns

19. An alternative would be to try to encourage people to move back into the towns to the north and east of Manchester which bave been steadily losing population for a number of years. Some of these towns have recently been showing signs of economic revival and may suffer from chronic labour shortages if population losses continue. However, it is doubtful whether they really offer scope for large scale overspill schemes or private development. Some towns immediately to the north of Manchester are already contributing towards the conurbation's bousing needs and there is probably room for further small schemes on similar lines to be arranged between the local authorities in future. But some of these towns suffer from elimatic and other disadvantages and the amount of suitable land available for further development is very limited. It would therefore not seem wise to plan for a substantial reversal of well-established trends for people to move elsewhere

the outcome of the study which is at present being undertaken into the feasibility and probable cost of a new crossing of the Dee Estuary. If this study shows that such a crossing could be huilt at a reasonable cost, it might well be possible to carry out a major new development on the western side of the estuary which could initially depend on employment in Merseyside, but which would be well situated to attract new industrial development at a later stage. A solution of this kind would be extremely attractive, particularly since it might contribute towards the economic growth of North East Wales, as well as meeting the long-term needs of the North West

20. A further possibility depends very much on

21. A final possibility is that substantial further population growth might be accommodated within the area between the two constructions roughly bounded by Stelmerstake and Wigan chaeses Ship Caula in the South. This might be done either by allowing some further perspheral spread of the two combations or by planned spread of the two combations or by planned spread of the two combations or by planned between them which lie near the lime of the Mo and have shown that they can support successful industrial growth. A good deal of new development is planned in the new town subscess for

Runcorn and Warrington and the town develop-

ment scheme at Widnes, in addition to the normal

growth of other communities.

22. To go much beyond this and to plan for considerable further development would be very difficult. Such a course would require very heavy additional investment in the road and public transport network to keep traffic consistion within tolerable limits. Moreover, much of the remaining undeveloped land is fragmented and physically unsuitable for development as a result of the presence of peat and mining subsidence. And a large part of the remainder is highly productive land which it has been a major objective of planning policy since the war to keep in agricultural use. There would also be a clear conflict with one of the main aims of current green belt policy-to prevent the coalescence of large built-up areas. 23. Nevertheless, this approach would have some

o. recreations, and approach would have some

important advantagos. It would reinforce wellestabilished treeds in terms of population and employment of the state of the state of the state of the employment of this report. The state of the state of the the two communities is particularly well-planed in relation to the antional network of road, ral, see and sit transport and is clearly capable of the state of the highly trebnised is not necessarily an argument for restricting its further development.

24. In any case, although developments in other parts of the region will accommodate a colstantial share of its future population growth. it has to be recognised that for as far ahead as can be foreseen a large majority of the people of the North West will continue to live in the heavily urbanised area comprising the two conurbations and the belt between them. One of the main tasks of planning for the future of the North West will be to improve the environment of this area. To this end, it is essential that the whole area should be planned as a unity in a way which will knit the developments already under way or planned into a comprehensive pattern. Positive planning might create a new kind of city region-with a balanced employment structure and easy access to attractive countryside and coastal districts outside it-and so enable the North West to regain in the late twentieth century the same relative position in the country as it enjoyed a hundred years ago.

Statistical Appendix

This Appendix brings together some of the detailed material which forms the background to the Study. A number of the tables are related to the figures illustrating the text. The first section contains the definitions of the economic planning regions of the country and of the sub-divitions of the North West economic planning region was in the study; the second deals with population; the third with employment and the fourth with noising.

DESINITION OF AREAS

2. For the purposes of economic planning eight regions have been established covering all arcus of Great Britain outside South East England. The Study deals with the North West economic planning region which, in this connection, has been further sub-divided. These tables give the composition, and the estimated civilian populations, of each of these divisions in 1964.
3. Table I sive that composition of the economics.

 Table I gives the composition of the economic planning regions of Great Britain (see Figure 1).
 No decision has yet been taken on economic planning machinery for the South East.
 Table 2 shows the sub-divisions of the North

West Region used in the Study, and Tabler 3, 4 and 5 give the composition of them (see Figure 6). In these and subsequent tables the divisions, sub-divisions and sub-regions of the North West are arranged in descending order of population size.

The main divisions of the North West are the Memory division which embraces the conurbations of South East Lancashire and Merseyside and contains three quarters of the Region's population; and North Lancashire and South Cheshire.

The Mersey division has been broken down to three sub-divisions, and further, to fourteen sub-regions; North Lancathire to three subdivisions and eight sub-regions. The composition of these is given in Tables 3 and 4 respectively. Table 5 gives the composition of the four subregions of South Cheshire.

BORTH CHOOL SECTION

7. The chief source of population statistics is the Cennus, which has been hold every 10 years (with the exception of 1941) since 1801. The Registrar General's published estimates of home population, based on the Census, include, however, members of the British, commonwealth, and foreign forces in the area, and it is more appropriate for economic planning purposes to use his specially prepared mid-year estimates of critical resolutions.

8. Table 6 shows the distribution of population in 1931 and 1964 and the changes occurring in 1931 and 1964 and the changes occurring the property of the common section of the common section of the common section of contract principal contract property of the common section of the c

10. As the estimates used are for civilian population only, allowance has had to be made for reduction in the size of the armed forces over the period. In the absence of information on the destinations of demobilised personnel, the net again to the civilian population of the country as a whole from this source has been allocated to areas pro read to their populations. The

estimates of net migration have been calculated by deducting from the total population change the estimates of natural change and the allowance made for gains from the armed forces.

11. Table 16 shows the growth of the population of the North West Region since 1801, and how the area's share of the total population of Great Britain has varied (see Figure 4).

12. Table 17 provides an analysis of a cross

12. 1200 F / Provision an analysis of a continuous section of the 1961 populations of the North-West and of England and Wales according to birthplace as given in the Census. The increases of population which occurred in these areas over the period 1951-61 are similarly analysed.

EMPLOYMENT STATISTICS

13. The methods by which Ministry of Labour compile employment statistics do not readily enable figures to be produced for areas other than Ministry of Labour regions. The estimates used in this Study relate throughout to Ministry of Labour regions as constituted in 1961 (see Figure 12): these are broadly equivalent to regions as used for the 1961 Census, but they are made up of Ministry of Labour local office areas whose boundaries do not generally corresnond with those of local authority areas. In some parts of the country these regions differ materially from the economic planning regions, but in the case of the North West the Ministry of Labour North Western region differs only marginally from the North West economic planning region.

14. The estimated numbers of employees in employment are derived from samples of national insurance cards exchanged during June, July and August, and so are subject to sampling and estimation errors which can be substantial. In Industrial Orders where numbers are small, the errors can be proportionately high. Part-time and occasional workers, as well as school children and students who have jobs, are included as whole units and the estimates also include some persons not in employment at mid-year, who were not registered as unemployed in June, but who exchanged their national insurance cards in June, July and August. For Great Britain as a whole, these estimates account for 90 per cent of the total working population (i.e. people of working age who either work for pay or pain or who register themselves as unem-

ployed). The balance is made up of employer, persons working on their own account, members of Her Majesty's Forces and Women's Service, and the unemployed.

15. In some tables the total number of employed is analysed by the 24 Industrial Orders defred in the Standard Industrial Classification insued by the Central Statistical Office in 1958, This classification is based on industries and not on occupations, and administrative, technical derical and ancillary staff are included in the figures of employment for the industry concerned The Ministry of Labour's data for years releto 1959 is based on the 1948 version of the Standard Industrial Classification, For the purposes of the Study Ministry of Labour have adjusted this as far as is possible to produce estimates for 1953 and for the period 1953-5 which are reasonably comparable with three available for 1959 and later years.

16. The regional estimates do not take fit account of cases where a pression is employed in a different region from that in which his salucial management of a suchanged. Before 1905, so mates on this account, but since that dis, allowance has been made for the greater preparation of these cases, and in order to provide reasonably comparable figures for your before particularly approximate to preparate figures. Por your before 1955, approximate to preparate figures for your before particularly 1955.

employed in each of their regions of Great

Britain at mid-year for the year 1954-6 siggives in Table 18, D and 26. Table 19 and with total employed; Table 19 and Table 20 and males and females respectively (see Figure 1); 18. In Table 27 the percentage change is eltimated by the percentage change is elterated by the control of the percentage of the Ministry of Labour region are analysed is term of four broad categories—printers, monther traing, construction and service industrate. He composition of these categories, in term of Industrial Orders, is seen in Table 221 of min monther of the categories, and the categories of the monther of the categories, in term of Industrial Orders, is seen in Table 221 of min conflowing the flustrial Order is Malriey

19. Table 22 gives the estimated total statistic employed in each Industrial Order in Mustary of Labour North Western region for the year 1953, 1959 and 1963. Equivalent estimate as given for Great Britain as a whole Table 24 cover males and females responsive. Deep the cover males and females responsive.
20. The percentage changes which occurred see.

the periods 1953-59 and 1959-63 in the numbers employed by Industrial Orders in the North Western region and in Great Britain are given in Table 25. Similar estimates are given for males in Table 26 and for females in Table 27. The same information expressed in terms of mean annual compound rates of change is given in Tables 28. 10 and 30. These percentage changes can indicate the order of magnitude of the change only in a very broad way. They are given to one decimal place for industries in which the number employed in the North West exceeds 10.000, but they should be interpreted with the utmost

21. The "serivity rate" i.e. the proportion of the home population constituted by employees femployed and unemployed) for each Ministry of Labour meion for the years 1953-63 is given in Toble 31. "Activity rates" for males, including more analicable to the male population and 65 and ourse are given in Table 32. The rates for females, including those applicable to the female possibilion aged 60 and over am given in Table 23. As these "activity rates" are calculated on Ministry of Labour estimates of employees they do not cover employers and self-employed.

22 Table 34 provides a comparison of pnemployment rates for total, male and female employees in the North Western region and for Great Britain as a whole for the wars 1953-63 (see Figure 14).

23. Table 35 analyses the estimated movement of national insurance cards of employees between the North West Region and other Ministry of Lahour Regions over the period 1953-1963. Table 25 provides estimates of the total inward and outward movements involved over the period for each of the Ministry of Labour Regions. For a number of reasons, the movement of cards is an imperfect reflection of migration. Only employees who have insurance cards in each of the two years being compared can be included in the estimates. Hence migrants into Great Britain would not appear in the statistics in the year in which they entered the country: neither would those persons who moved to another part of the country to take their first job, nor those who moved on retiring from work. Established civil servants (who do not have cards) would also be excluded. In addition, an insurance card may be exchanged in a different region in successive years, though the employee continues to work

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in the same locality. Alternatively, a remon who merely transfers his job across a regional boundary without movine his home can be in-

cluded as a migrant 24. For Study purposes Ministry of Labour have prepared some approximate figures of total numbers employed in 1953 and 1963 for twelve sub-divisions of their North Western region.

These sub-divisions (see Figure 17) are appreciations of Ministry of Lahour local office areas and do not coincide with the sub-divisions or subregions of the North West economic planning region defined in Tables 2-5. The Ministry of Lahour estimates are given in Table 37 (see Figure 18). Although all the percentage changes given in the table for 1953-63 and 1959-63 are calculated, for the sake of uniformity, to one decimal place their accuracy cannot be relied upon to this extent for areas such as Lancaster-Maracamba Southnort-Ormskirk Furness and High Peak where the numbers employed are relatively small. 25. Table 38 gives the distribution of shops in

relation to nonulation and estimated sales per establishment and per person ensured. The information is derived from the Census of Distribution 1961 and is for standard regions of Great Britain

HOUSING STATISTICS

26. Table 39 provides some indicators to the age and condition of the Region's stock of dwellings. It gives locally derived estimates of the number of dwellings which, whether by reason of unfitness or a need to make way for re-development. will be ripe for demolition during the period 1964-81. These estimates, in effect, constitute opinions of what ought to be done; they are not the product of an actual clearance programme. Set alongside these estimates are various items of readily available data which are pointers to the scale of obsolescence. These cover the number of dwellings enumerated at the 1861 and 1881 Censuses, viz. dwellings which, if still in existence would be 100 years old now or by 1981: dwellings with no fixed bath and dwellings with a low rateable value.

27. Table 40 identifies those local authority areas in the North West where more than 3-5 per cent of the population in private households were living in seriously over-crowded conditions represented by an occupancy rate of more than 14 persons per room at the time of the 1961 Census. The areas are listed in descending order of the proportion of the population in these conditions. 28. Table 41 itemises by sub-divisions the diagnosis of the region's housing problem developed in Chapter 9.

29. Table 42 is an explanatory note of the method used in the Study for calculating future increase in households and of the assumptions musregarding planned overspill.

DEFINITION OF AREAS

Table 1. Economic planning regions of Great Britain.

Table 1. Economic planning regions of Great : Table 2. Divisions of the North West Region.

Table 2. Divisious
Table 3. Mersey.

Table 3. Mersey.

Table 4. North Lancashire.

Table 5. South Cheshire.

POPULATION STATISTICS

Table 6. Civilian population changes: Great Britain 1951-64.
Table 7. Civilian population changes: Great Britain 1951-56.

Table 8. Civilian population changes: Great Britain 1956-61.

Table 9. Civilian population changes: Great Britain 1961-64.
Table 10. Civilian population: mean annual changes by migration: Great Britain 1951-56, 1956-61

and 1961-64.
Table 11. Civilian population changes: North West Region 1951-64.

Table 12. Civilian population changes: North West Region 1951-56.

Table 13. Civilian population changes: North West Region 1956-61.

Table 15. Civilian population: mean annual changes by migration: North West Region 1951-56,

Table 15. Cavinan population: mean annual counties by implanton. North West Region 1975-5, 1955-61 and 1961-64.

Table 16. The proportion of the population of Great Britain resident in the North West Region

1801-1964.
Table 17. Population by place of birth: North West Region and England and Wales 1951-61.

EMPLOYMENT STASTISTICS

Table 18. Distribution of total employed: Great Britain 1953-63.
Table 19. Distribution of employed males: Great Britain 1953-63.

Table 20. Distribution of employed females: Great Britain 1953-63.

Table 21. Employment changes by broad categories of industry: Great Britain 1953-59 and 1959-63.

Table 22. Total employment by Industrial Orders; North Western Region and Great Britain 1953,

1999 and 1963.

Table 23. Male employment by Industrial Orders: North Western Region and Great Britain 1953,

1959 and 1963.
Table 24. Female employment by Industrial Orders: North Western Region and Great Britain 1953,

1999 and 1963.
Table 25. Total employment changes by Industrial Orders: North Western Region and Great Britain 1953-9-63.

Table 26. Male employment changes by Industrial Orders: North Western Region and Great Britain 1953-59-63.

- Table 27. Fernale employment changes by Industrial Orders: North Westera Region and Great Britain 1953-59-63.
 Table 28. Mean annual total employment changes by Industrial Orders: North Westeru Region and Great Britain 1953-59-63.
- Tablo 29. Mean annual male employment changes by Industrial Orders: North Western Region and Great Britain 1953-59-63.
- Table 30. Mean annual female employment changes by Industrial Orders: North Western Region and Great British 1953-50-63
- Table 31. Activity rates: total (males and females); Great Britain 1953-63.
- Table 32. Activity rates: males: Great Britain 1953-63.
- Table 33. Activity rates: females: Great Britain 1953-63.
- Table 34. Unemployment rates: North Western Region and Great Britain 1953-63.
- Table 35. Inter-regional migration of employees: North Western Region and the rest of Great Britain 1953-63.
- Table 36. Inter-regional migration of employees: Great Britain 1953-63.

 Table 37. Total employment changes: North Western Region 1953-63.

 Table 38. Shops and retail trade: Great Britain 1961.

ROUSING STATISTICS
Table 39. Age and condition of dwellings: North West Region

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- Table 40. Overcrowding: North West Region 1961.
 Table 41. The Housing Problem: North West Region 1964-81.
- Table 42. Explanatory note on method of calculating future increases in households; assumptions regarding planned overspill.

Table 1 Economic planning regions of Great Britain

| Composition of economic planning regions | 1964 civilian population (thousands) | Composition of economic planning regions | 1964 etvilian popularian (thousands) |
|--|--|--|--|
| (/) | (2) | (7) | (2) |
| All areas | 52,319 | East Midlands Region continued | |
| Scotland | 5,180 | Rutised | 24 |
| Northern Benjon | 3,287 | West Midland Region | 4,913 |
| Comberland | 216 | Herefordshire | 135 |
| Durham | 1.532 | Shrombire | 307 |
| Northumberland | 826 | Staffordshire | 1,796 |
| Westmortand | 67 | Warwickshire | 2.079 |
| Yorkshire, North Riding | 567 | Worcestershire | |
| Yorkshire and Humberside Region . | 4,672 | South West Region | 3,584 |
| Lincolnshire: Parts of Lindsey ex- | | Cornwall | |
| cluding Lincoln C.B | 438 | Deven | 832 |
| Yorkshire, East Riding | 536 | Dorset | 322 |
| Yorkshire, West Riding | 3,698 | Gloucestershire | 1,029 |
| | | Somerset | |
| North West Region | 6,662 | Wiltsbire | 441 |
| Cheshire | 1,430 | | 1 |
| Derbyshire (part) (see Note I) | 70 | South East England (see Note 2) | 18,129 |
| Lancashire | 5,162 | Bedfordshire | 406 |
| | | Berkshire | 548 |
| Wales and Monmouthshire | 2,668 | Buckinghamshire | 523 |
| Anglesey | 52 | Cambridgeshire | |
| Breconshire | 54 | Isle of Elv . | 90 |
| Catroaryonshire | 120 | Essex . | 2,362 |
| Cardinanshire | 53 | Hampshire | 1.388 |
| Carmarthonabire | 167 | Hertfordsbire | |
| Denhishshire | 177 | Huntingdonshire | 85 |
| Pintshire | 154 | Kent . | 1,775 |
| Glamorgan | 1.242 | London | 3,177 |
| Merionothshire | 1,242 | Middlesey | 2,237 |
| Monmouthshire | 456 | | |
| | 416 | | |
| Montgomeryshire | 93 | | |
| Pembrokeshire | 18 | | |
| Radnorshire | 18 | Suffolk, East | |
| | 4 444 | Suffolk, West | |
| ast Midland Region | 3,226 | Surrey | |
| Derbysbire (part) (see Note I) | 831 | Sussex, East | 692 |
| Leicesterabiro | 701 | Sussex, West | 435 |
| Lincolsshire: Parts of Holland | 105 | Isle of Wight | 95 |
| Lincolsshire: Parts of Kesteven and | | | 1 |
| Lincoln C.B. | 217 | | 1 |
| Northsusptonshire | 416 | | |
| Nottinghamshire | 932 | | 1 |

2. At time of going to press, no decision has yet been taken on economic planning machinery for the South East

MOTES The area of Derhyshire falling within the North-West Region comprises Buston M.B., Glossop M.B., New Mills U.D., Whaley Bridge U.D. and Chapel on it Prith R.D.

Area

Table 2 Divisions of the North West Region

| | | Area | | | _ | | 1964 elvilian populatio (thousands) |
|------------------------------|---|----------|------|--|-----|-------|--|
| All arres | | (I) | | | | | (2) |
| All areas | | | | | | | 6,662 |
| Mersey (see Table 3) | | | | | | | 0,062 |
| South East Lancarbine | | | | | | | 4.981 |
| | | | | | | - 1 | 2,690 |
| Warrington Wigner see | | | | | - 1 | - 11 | 1,697 |
| | | | | | - 1 | - : 1 | 624 |
| | | | | | - 1 | - 11 | 1,279 |
| Lancaster-Fylde | | | | | - 1 | - 1 | 764 |
| | | | | | | | 410 |
| South Cheshire (see Table 5) | | | | | | - 1 | 105 |
| | • | | | | | ! | 401 |

Table 3 Mersey

| Constitue | nt are | ar. | | eisilian population (thousands) | Constituent areas | | | _ | cisilian population (thousands) |
|------------------------------------|--------|---------|----|---------------------------------------|---------------------------------------|---|-----|---|---------------------------------------|
| (I |) | | | (2) | (7) | | | | (2) |
| All areas | | | | 4,981-5 | Altrincham sub-region | | | | 184-2 |
| South East Laucusbire | | | | 2,660-3 | Alderley Edge U.D. Altrinchum M.B. | | 1 | : | 3-7 |
| Mazchester sub-regio | 0 - | | | 1,226-2 | Bowden U.D. | 1 | - 1 | - | 4-7 |
| | | | | 644-4 | | | | | |
| Manchester C.B. | | | | | Knutsford U.D. | | | | 10-0 |
| Salford C.B | | | | 150-3 | Lymm U.D | | | | 8-0 53-4 |
| Audenshaw U.D. | | | | 11-9 | Sale M.B. | | | | |
| Denton U.D | | | | 32-8 | Wilesslow U.D. | | | | 26-7 |
| Droyladen U.D. | | | | 25.5 | Bucklow R.D | | | | 20-5 |
| Eccles M.B. | | | | 42-5 | | | | | |
| Failsworth U.D. | | | | 21 - 5 | | | | | |
| Irlam U.D | | | | 16:3 | Bury sub-region | | | | 152-4 |
| Middleton M.B. | | | | 58-4 | | | | | |
| Prestwich M.B. | | | | 34.0 | Bury C.B | | | | 62-1 |
| Stretford M.B. | | | | 60.3 | Heywood M.B. | | | | 27-9 |
| Swigton and Pend | lebur; | M.E | B | 41-1 | Rudeliffe M.B. | | | | 26-9 |
| Urmston U.D. | | | | 43 - 1 | Ramsbottom U.D | | | | 14-0 |
| Worsley U.D | | | | 44-1 | Tottington U.D. | | | | 6-1 |
| | | | | | Whitefield U.D. | | | | 15-5 |
| Stockport sub-region | | | | 323 - 8 | | | | | |
| Stockport C.B. Brodbury and Ror | | | | 142·5 24·3 | Rochdale sub-region . | | | | 116-6 |
| | | | | | | | | | 86:2 |
| Cheadle and Gatle | | | | 51-6 | Rochdale G.B. | | | | |
| Hazel Grove and I | Be#ml | Talls C | D. | 32.3 | Littleborough U.D. | | | | 10.8 |
| Hyde M.B | | | | 35 - 4 | Milnrow U.D. | | | | 8-4 |
| Marple U.D | | | | 19-9 | Wardle U.D | | | | 4.2 |
| New Mills U.D. | | | | 8-7 | Whitworth U.D. | | | | 7.0 |
| Whaley Bridge U.1 | D. | | | 5-3 | | | | | |
| Dislay R.D | | | | 3-8 | Leigh sub-region . | | | | 81:4 |
| Oldham sab-region | | | | 237-5 | Atherton U.D. | | | | 19-5 |
| Constant app-todates | | | | 23/13 | Leigh M.B. | | | | 46.4 |
| Oldham C.B. | | | | 112-7 | | | | | 17:5 |
| Ashton-under-Lyn | | | | 49-3 | Tyldesley U.D | | | | 17.3 |
| Chedderton U.D. | e whi | 24 | | 32.6 | | | | | |
| Crometon U.D. | | | | 14:0 | Stalybridge sub-region | | | | 64.0 |
| Lees U.D. | | | | 3-7 | nemyorange sub-region | | | | 94.0 |
| | | | | 9-7 | Dukinfield M.B. | | | | 17-3 |
| Royten U.D. | | | | 15.6 | Glosson M.B. | | | | 18:7 |
| Royton U.D | | | | 13.6 | | | | | 18-7 |
| Bolten sub-region | | | | 234-6 | Longdendale U.D. | | | | 11:7 |
| поиса это-гедов | | | | 254-6 | Stalybridge M.B Tintwistle R.D. | | | | 11.5 |
| Bolton C.B. | | | | 159-2 | i mwine R.D. | | | | 1.5 |
| Faraworth M.B. | | | | 26-8 | | | | | |
| Horwich U.D. | | | | 16-1 | High Peak sub-region . | | | | 37-6 |
| Kearsley U.D. | | | | 10-5 | Ange I was see region . | | | | 31.0 |
| Little Lever U.D. | | - 1 | | 5-6 | Buxton M.B | | | | 19.4 |
| Turton U.D. | | | | 16-4 | Chapel on le Frith R.D. | | | | 18-2 |
| | | | | | | | | | |

2954

1964

Table 3 Mersey continued

| Constitue | nt are | 25 | _ | | 1964 civilian population (thousands) | Constituent a | reas | | 1964 civilian population (thousand |
|--------------------------|--------|----|-----|-------|---|-----------------------|--------|------|---|
| (| n | | | | (2) | (1) | | _ | cn |
| Merseyside | | | | | 1,696-8 | Warrington-Wigan area | | | 624-4 |
| North Merseyside anb- | rogioz | | | | 1,277-1 | Wigan sub-region . | | | 390-4 |
| Bootle C.B. | | | | | 81-0 | St. Helens C.B. | | | |
| Liverpool C.B. | | | - 1 | | 728-9 | Witten C.B. | | | 105-3 |
| Southport C.B. | | | | | 80-1 | Abram U.D. | | | 77-2 |
| Crosby M.B. | | | - 1 | | 19.0 | Anhton-in-Makerfield | | | 6-1 |
| Formby U.D. | | | - 1 | | 14:3 | Aspull U.D. | U.D. | | 21-2 |
| Huyton-with-Roby I | U.D. | | | | 67.7 | Billinge and Winstani | 1 | | 6-9 |
| Kirkby U.D. | | | - 1 | | 57.9 | Blackrod U.D. | ty U.D | | 8:3 |
| Litherland U.D. | | | | - : : | 25:2 | Golborne U.D. | | | 4-1 |
| Ormskirk U.D. | | | | | 24:3 | Gotborne U.D. | | | 23 - 4 |
| Prespot U.D. | | | | | 13:3 | Haydock U.D. | | | 12-4 |
| Rainford U.D. | | | - 1 | | 5.9 | Hindley U.D. | | | 20-7 |
| West Lancashire R.I | ٠. | | | | 61.9 | Inco-in-Makerfield U. | D. | | 17.7 |
| Whiston R.D. | | 1 | | | 55-1 | Newton-le-Willows U. | D. | | 21.9 |
| The second section | | | | | 22.1 | Orrell U.D. | | | 11:4 |
| | | | | - 1 | | Skeimtesdale U.D. | | | 6.4 |
| | | | | - 1 | - 1 | Standish with Langtro | 0 U.D. | - 31 | 10-1 |
| | | | | | | Upholland U.D. | | | 8-9 |
| South Merseyside sub-r | | | | - 1 | | Westhoughton U.D. | | | 17.2 |
| seem successfully sub-fi | goon | | | | 419 - 7 | Wigan R.D. | | | 11.0 |
| Birkenhead C.B. | | | | | 143-5 | | | | -1.0 |
| Wallasey C.B. | | | | - 1 | | Warrington sub-region | | | 233 - 9 |
| Bebington M.B. | | | | | 103-3 | | | 11 | |
| Ellesmere Port M.B. | | | | | 54-1 | Warrington C.B. | | | 75.1 |
| Hoylake U.D. | | | | | 48-2 | Runcorn U.D. | | | 27 - 2 |
| Neston U.D. | | | | | 32.6 | Widnes M.B. | | 11 | 53.7 |
| | | | | - 1 | 14-0 | Runcom R.D. | | 61 | 41-9 |
| withii U.D | | | | - 1 | 24-1 | Warrington R.D. | | -11 | 36:1 |

| | Cons | tituer | ıf are | as | | | 1964 civilian population (thousands) | Constituent | areas | | | 2964 civilian population (thousands |
|-------------|--------|--------|--------|-----|-----|-----|---|------------------------------|-------|--------|-----|--|
| | | (1) | | | | | (2) | (1) | _ | | | (2) |
| All areas | | | | | | | 1,279-0 | Charley sub-region | | | | 68-0 |
| | | | | | | | | Adlington U.D. | | | | 4.5 |
| | | | | | | | | Chorley M.B. | | | | 31-1 |
| Ribble | | | | | | | 764-4 | Withhell U.D. | | | : : | 2.8 |
| | | | | | | | | Chorley R.D. | | | 1 1 | 29.6 |
| Blackburn | sub-re | gion | | | | | 251-2 | | | | | 20.0 |
| | | | | | | | | Rossendale anti-region | | | | 34-6 |
| Blackba | | | | | | | 103-6 | | | | | 34.0 |
| Accrinst | on M. | B. | | | - 1 | - 1 | 38-5 | Bacup M.B. | | | | 16-9 |
| Church ! | U.D. | | | | - 1 | - 1 | 5.8 | Haslingden M.B. | | | | 14-2 |
| Clayton- | le-Mo | ors t | LD. | | - 1 | - 1 | 6.4 | Rawtenstall M.B. | | | : : | 23.5 |
| Clitheros | | | | | - 1 | | 12-5 | reservation resp. | | | | 23.3 |
| Darwen | | | | | | | 29-1 | | | | | 1 |
| Great Ho | | | | | | | 10-7 | | | | | 1 |
| Oswaldty | | | | | | | 12-5 | Lancaster-Fylds . | | | | 409-9 |
| Rishton | U.D. | | | | - 1 | - 1 | 5-4 | | | | | 107 7 |
| Blackbor | m R.E | ś | | - 1 | - 1 | | 17-1 | Blackpool and Fylde s | | | | 292-0 |
| Clitheroe | R.D. | | | - 1 | - 1 | - 0 | 9.6 | and a property and a page of | | 10,000 | | 292.0 |
| | | | | | | | | Blackpool C.B. | | | | 150-7 |
| Preston sub | -recio | | | | | | 220-8 | Fleetwood M.B. | | | | 28 - 4 |
| | | | | | | | | Kirkham U.D. | | | | 6:0 |
| Preston 6 | C.B. | | | | | | 110-4 | Lythern St. Annes 1 | a si | | | 36.5 |
| Pulwood | | | | | | - 1 | 17-1 | Poulton-le-Fylde U. | T) | | | 14-7 |
| Levland | U.D. | | | | | | 20.7 | Proceed U.D. | | | : : | 3.0 |
| Leogrida | o U.C | ĸ. | | | - 1 | | 5.1 | Thornton Cleveleys | ven | | | 22.0 |
| Walton-k | e-Dale | ur | | | | - 1 | 21.6 | Fride R.D. | 0.0. | | | 16:6 |
| Preston l | R.D. | | | | | | 46.0 | Garstang R.D. | | | . , | 15:4 |
| Burnley sub | | | | | | | | | | | | |
| | | п | | | | | 169-8 | Lancuster sub-region | | | | 117-3 |
| Burnley 6 | | | | | | | 79-3 | Carnforth U.D. | | | | 4.2 |
| Barrowfo | red U. | D, | | | | | 4-7 | Lancaster M.B. | | | | 47:8 |
| Briorfield | U.D. | | | | | | 7.3 | Morecambe and He | ochan | ME | | 40:6 |
| Coins M. | .в. | | | | | | 19-0 | Lancaster R.D. | , | | | 15:4 |
| Nelson h | 4.B. | | | | | | 31-5 | Lunesdale R.D. | | | | 9.2 |
| Pedham | | | | | - 1 | | 10-1 | | | | | |
| Trawden | U.D. | | | | | | 1.9 | | | | | |
| Burnley 1 | R.D. | | | | | | 16-0 | | | | | |
| | | | | | | | | Furness | | | | 104-7 |
| | | | | | | | | Furness sub-region | | | | 104-7 |
| | | | | | | | | Barrow-in-Purness | С.В. | | | 65-2 |
| | | | | | | | | Dalton-in-Furness I | LD. | | | 10:4 |
| | | | | | | | | Grange U.D. | | | | 2.9 |
| | | | | | | | | Ulverston U.D. | | | | 10.4 |
| | | | | | | | | North Lonsdale R I | | | | 15-8 |

Table 5 South Cheshire

Constituent areas

| | | | - 1 | | | | | | |
|--------------------|-----|---|------|--------|------------------------|---|-----|------|-------|
| Crewe sub-region | | | | 112-5 | Macciesfield sub-regio | a | | . | 102-0 |
| Alsager U.D. | | | | 9-1 | Bollington U.D. | | | | 5-7 |
| Crewe M.B. | | | | 52.9 | Consiston M.B. | | | | 17-4 |
| Nantwich U.D. | - 1 | | - 11 | 11:0 | Macclesfield M.B. | | | | 35-5 |
| Sandboch U.D. | | | | 10-3 | Consiston R.D. | | | | 15-2 |
| Nantwich R.D. | | | | 29 - 1 | Maccleafield R.D. | | | - 11 | 25-1 |
| Chester sub-region | | , | - 1 | 105-7 | Northwich sub-region | | | | 81-2 |
| Chester C.B. | | | | 59-5 | Middlewich U.D. | | | | 7-5 |
| Chester R.D. | | | | 30.9 | Northwith U.D. | | - 1 | - 11 | 19-4 |
| Tarvin R.D. | - 1 | | 1 | 15-4 | Winsford U.D. | | | - 71 | 14-1 |

1954

papaletian (thousands) Constituent areas

(D)

1964

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| | | | | | g | Charges 1951-64 | 3 | ŀ | | Dim |
|--------------------------------------|-------------|----------------------|---------|-----------|---------|-------------------------|---|----------------------------|--|--------------------|
| Arra | Diens 28 | Dienslaritee 1951 | , g | Tate! | 19 for | By Strike and deaths | Estimated gals francared arrest farcts | Eggin and de day maj | Estimated ant beliance by relicution | _ |
| | Na | Per cent | No. | Per cent | No. | Per cent | Na. | No. | Per cent | No. |
| s | 8 | 5 | 9 | 9 | 9 | 8 | 8 | 8 | (00) | (ID) |
| Great Britisis | 48,335-3 | 300-0 | 3,985-7 | 8-7 | 9,306.9 | 8.9 | 410-5 | 268-3 | 9-0 | 52,319-0 |
| Sociand | 3,064-3 | 10.5 6-4 | 115-2 | 6.3 | 285.7 | 0.7 | 45-0 | -385-0 | 13.6 | 3,287-2 |
| Yorkshire and Humber- side Region | 1,459-1 | 9.5 | 212-7 | * 4 | 349-4 | 5-5 | 22 | -39-8 | 1.9 | 6-136,3 6-136,3 |
| Wakes and Monmouth- | 2,369-0 | 33 | 28 | | 118-1 | 9.5 | 77 | 180 | 97 | 3,225-6 |
| East Midland Region - | 2,891.7 | 0 -0 | 28.8 | _ | 396-1 | 0.6 | 37-1 | 96-0 | 5.5 | 4,912-8 |
| South West Region . | 100 | 39.67 | 1,866-4 | er iii | 1,067-8 | 4 · 9 8 · 9 | 139-7 | 628-9 | 7.7 | 18,128-7 |
| | | | | | | | | | | |

Per cent (12)

| | | | | | | 1 | |
|--|-------------------------------|--------------|---|----------|---------|-------------------------|-------|
| den | Dint | Distribution | | | - | Charges 1951-56 | 8 |
| | | 282 | | Pass | A Dec | By birth: and death: | Earl |
| | No. | Per cent | No | Per cont | TA N | | 1 |
| S | 8 | 5 | 93 | 4 | | | |
| Court Bulletin | | | | 3 | ŝ | 6 | _ |
| ment property | 46,333-3 | 100-0 | 901-0 | 1.9 | 1,013-4 | 2.1 | - |
| Scotland Vorthern Region Corketire and Humber | 3,084-3 | 50-5 | 24 | 72 | 153-3 | 9.0 | |
| olde Region Forth West Region Valva and Memouth- | 4,459·1 6,380·0 | 9-2 | 45-6 | 9.6 | 101-7 | 6.9 | |
| | 2,891-7 4,383-0 3,228-9 | 2022 | 125-2 | 2222 | 11.4 | 2.8 | ***** |
| | 2000 | 9.57 | 642-3 | 2.1 | 305-0 | 6.1 | '% |

69,234-3 5,083-3 3,142-4 4,504-7 6,631-6

(10) (11) -0.4 49,234.3 2,587.8 2,980-0 4,588-2 3,291-8 6,704-6

-47-4 -1-5 -47-4 -1-5

| | 1 | | _ | | d | Charges 1956-61 | 19- | | | - | |
|-----------------------|--|----------|---------|----------|---------|-------------------------|--|--------|--|----------|----------|
| Area | III III III III III III III III III II | DS6 | a a | Total | B) | By births and deaths | Entimated gain from armed forests | | Estimated net balance by sugnation | 1 | 1961 |
| | No. | Per cent | No. | Per cent | No. | Per cent | No. | No. | Per cent | No | Per cest |
| (3) | 8 | 5 | 9 | 8 | 9 | 8 | 8 | 8 | (00) | (11) | (12) |
| Great Britain | 49,234-3 | 100-0 | 1,812-1 | 3-7 | 1,300-2 | 3-6 | 281-7 | 230-2 | 30 | 51,046-4 | 100.0 |
| Sentand | 5.087-3 | 10-3 | 122 | 2 | 185-3 | 3-6 | 28-7 | -141-9 | 75 | 5.155-4 | 10.1 |
| Northern Region | 3,142.4 | 9-9 | 22:1 | 5.0 | 108-7 | 3.3 | 18:0 | -28.5 | 6-0- | 3,234-5 | 6.9 |
| Yorkshire and Humber- | | | | | - | | - | | : | | |
| side Kegion | 438 | ò | 2 | - | 107-4 | | 2 | - | 7 | 1 | 5 |
| Worth West Ragion - | 6,431-6 | i | 700 | = | 139.7 | 4 | Ř | ŝ | -0.5 | 5 | 9.71 |
| shire | 2.587-8 | 5:3 | 27.7 | 1:3 | 9.99 | 1-1 | 14-7 | -23-7 | - 0.8 | 2,625-4 | 7 |
| Fact Midfard Region . | 2,980-0 | 0-9 | 140-6 | 4:1 | 88.3 | 200 | 13-1 | 35-1 | 1.5 | 3,120-5 | 6-1 |
| West Milland Reside | 4.508-2 | 6.5 | 234-8 | 5.5 | 154.5 | 7.6 | 6.22 | 7,3 | 1.5 | 4,743.0 | 6.6 |
| Court West Residen | 4.291-8 | 6.3 | 100-5 | 5.5 | 9 | 100 | 19-0 | 50.5 | 2.8 | 3,461-3 | 9.9 |
| South East Fooland | y-701.91 | 33-9 | 878-6 | 2.3 | 422-7 | 2.5 | 86-2 | 359-7 | 2.5 | 17.583-2 | 34.4 |

Table 9 Civilian popul Great Britain 1961-64 128

| | Diver | Peofice | | | 8 | Charges 1951-64 | 2 | | | | |
|---|--------------------|----------|---------------|----------|-------|-------------------------|---|--------|--|--------------------|----------------------|
| Area | N N | 1961 | e e | Total | By b | By birche and deaths | Estimated galn fram armed forces | | Estimated net balance by migration | Dian R | Distribution 1964 |
| | No. | Per cent | No. | Per cent | Ne. | Per cent | No. | No. | Per cent | No. | Per cent |
| S | 8 | 9 | £ | හි | (9) | 8 | (8) | (6) | (01) | (17) | (72) |
| Great Britain | 51,046-4 | 100-0 | 1,272-6 | 2.5 | 993-3 | 1-9 | ä | 225-1 | 0.5 | 52,319.0 | 100-0 |
| Scotland Northern Region Yorkshire and Humber- | 5,155-4 | 10-1 | 24-1 52-7 | 1.65 | 119-5 | 22 | 3.6 | -104-1 | -2-0 | 5,179·5 3,287·2 | 6.9 |
| side Region North West Region Wales and Monmouth- | 4,581.4 6,541.6 | 12.8 | 30.4 120.3 | 1:8 | 83-0 | 25 | 6.5 | 2-9 | 51 | 4,671-8 | 8.9 |
| shire East Midland Region . | 3,120-5 | 6.1 | 105-1 | 9 7 | 33.8 | 1.3 | 2.6 | 8.6 | 0.5 | 2,667-7 | 1.5 |
| West Midland Rogion . | 4,743-0 | 6 | 169-8 | 9.0 | 120-2 | 2.5 | 4-1 | 1 | 2.0 | 4,912.8 | 9 6 |
| South East Regiand . | 17,583-2 | e ž | 265 | 2.5 | 340.1 | 46 | 74 | 187.9 | 22 | 1,583-8 | 34.7 8.7 |

Table 10 Civilian population: mean annual changes by migration Great Britain 1951-36, 1935-61 and 1951-64

1011-50 1956-61 1961-64 Area No. Per cent No. Per cent No. Per cent (4) (5) (6) (2) Great Britain -37-4 -0.08 46.0 0.09 75-1 0.15 -28-0 Scotland . -0.55 -28-4 -0:55 -34-7 -0:67 -9.5 -0.30 -0-19 -5.2 -0.16 Northern Region Yorkshim and Humberside Region -9.3 -0.21 -11.2 -0.25 1.0 0.02 North West Region . -12:0 -12:1 Wales and Monmouthshire -5-0 -0·19 0·08 -4.1 -0-17 0-23 2-0 0-07 East Midland Region West Midland Region -0-7 -0.01 0.07 10.9 15·0 23·7 2.4 18-1 South West Region . South East England . 62.6

(thousands)

| | | , | | | 0 | Charges 1931-64 | 39 | | | | |
|---|-----------|---------------------|-------|----------|---------------|-------------------------|---|------------------------|--|-----------|----------------------|
| Arce | Dun IS | Natribation 1931 | l g | Total | By L and a | By births and deaths | Estimated gain from armed forces | Entl ner b by mi | Estimated net balance dy migration | Dien | Distribution 1964 |
| | No. | Per cent | No. | Per cent | No. | Per cent | No. | No. | Per cent | No. | Per cent |
| S | 8 | 5 | ૬ | S | 9 | 8 | 8 | 8 | (01) | GD. | (2) |
| North West Region . | 6,380-0 | 100.0 | 281.9 | 4:4 | 349.4 | \$.5 | 53.2 | -120.6 | -1-9 | 6.199,9 | 100-0 |
| Mersey | 4,781-4 | 24.9 | 200-1 | 4.2 | 328-4 | 6.9 | 39-8 | -168-1 | Ť | 4,981 - 5 | 74-8 |
| South East Lancashire. | 2,601-1 | 8:00 | 59-2 | 2-3 | 123 | 4.7 | 21-5 | 1-83-1 | 7 | 2,660-3 | 8 |
| region | 1,253-7 | 19-7 | -27-5 | -2.2 | 84.9 | 8.9 | 10.3 | -122-8 | 0 | 1 236.2 | 18.4 |
| Stockport sub-region | 270-3 | 5.5 | 53.5 | 19.8 | 12.3 | 3 | 5.3 | 38.0 | 14.4 | 323-8 | * |
| Bolton subcregion . | 376.1 | 200 | 200 | 41 | 9 - | 90 | 200 | 1 | ÷ | 237-5 | 3.6 |
| Altrincham sub-region | 162.0 | 5.5 | 42.5 | 29:1 | 8.3 | 2 6 | 25 | 22:0 | 35.7 | 234.0 | 200 |
| Bury sub-region | 144.2 | 2.3 | 83 | 5.7 | 5.7 | 7 | 1.5 | 2.0 | | 2 | 5.7 |
| Kochdale sub-region | 119.0 | 6 1 | 7 | 9.0 | 200 | 23 | 21 | 9.6- | 6:7 | 9.911 | 1.7 |
| Stalybridge sub-region | 3 | | 90 | 7 | | 9-0 | 5.0 | 1 | 75.7 | 2 25 | 7.0 |
| High Peak sub-region | 98. | 9. | -0-2 | 7 | Ξ | 2.9 | 6.3 | 6-1- | 9.5 | 37.6 | 9.0 |
| Merseyalde | 1,584.9 | 8 × 8 | 6-111 | 7 | 162-7 | 10-3 | 13-3 | -64-1 | -4.0 | 1,696.8 | 23-5 |
| region | 1,207-8 | 18-9 | 69-3 | 5.7 | 132-9 | 0.11 | 10-1 | -73.7 | 1.9- | 1,277-1 | 19.2 |
| region | 337-1 | 6.5 | 42.6 | 11:3 | 29.8 | 7.9 | 3.5 | 9.6 | 2+6 | 419.7 | 6.3 |
| Warrington-Wigan area Wigan sub-region | 380-0 | 5.6 | 9.01 | 9.5 | 22 | 5.8 | 5.0 | 14.7 | 13.5 | 386.4 | 4.0 |
| Warrington sub- region | 215-4 | ž | 18-5 | 9.8 | 20-9 | 2.6 | 00 | -4-2 | 0.7 | 233.0 | |
| | | _ | _ | | - | _ | - | | | | |

| 1,238-4 | 19:4 | 9.04 | 2 | 7 | 0.1 | 10.3 | 28.9 | 2-3 | 1,279-0 | 19-2 |
|---------|---|--|------|---|------|--|---|---|----------|-----------|
| 763-6 | 12.0 | 80 | 0.7 | 9.0 | | 6.3 | 77 | 77 | 764.4 | 11.5 |
| 203-7 | 3.5 | 13 | ** | 12 | , v | 17 | 3.7 | | 270-8 | |
| 179.3 | 9 | 6-6 | -5.3 | -2.3 | 7 | 1:3 | -8-7 | -4-8 | 169 - 8 | 5.6 |
| †.99 | 2 | 9-1 | 2.4 | 2:1 | 9,5 | 0.0 | 0.7 | -1-1-1 | 8 | 2 |
| 6.65 | 6.0 | * | -5-7 | ë P | -0-4 | ö | 9.6 | 7.0 | 9.4.9 | × |
| 3.896 | 8.8 | 41-1 | 1-11 | -9.5 | -2.5 | 3-1 | 47.2 | 12.8 | 409-9 | 6-1 |
| 258-3 | 941 | 34.4 | 13:3 | 0.7 | 9.5 | 0.0 | 41.5 | 5.4 | 252.7 | 2,2 |
| 106.0 | 1-7 | 11.3 | -1-3 | 2.0 | 1.9 | 6-0 | -4-2 | 0-9- | 104-7 | 1-6 |
| 360-2 | 9.6 | 41.2 | 11-4 | 19-5 | 5.4 | 3-1 | 18.6 | 5-2 | 401-4 | 0-9 |
| 103-5 | 9-1 | 0-6 | 9-8 | 5. | 6-9 | 6-0 | 9.0 | 2.9 | 112-5 | 13 |
| 51.7 | 7 | 13.0 | 14-1 | 6-7 | 7-3 | 9.0 | 2.5 | 9 | 109-1 | 1-6 |
| 89.3 | 7 | 12.8 | 14.3 | 5.2 | 5.8 | 8.0 | 9-5 | 9-00 | 102.0 | 1.2 |
| 74.8 | 1:5 | ę.9 | -1 | 5.5 | 2.0 | 9.0 | 9-0 | 6-0 | 81.2 | 1.5 |
| | | | | | | | | | | |
| | 1,28 ± 4 2,56 ± 5 2,56 ± 5 2,5 | 1,138-4 1,1 | | 5 6548658 % 54 7 % 74 44 4 654868 % 54 4 % 74 44 | # 6 | Y 862358 % 60 D X XX 10 % 24251 D X 5 C 25 W1 5 241510 D W 5 C 37 W1 | # 852#52 # 50 0 # 11 10 # 952#52 # 10 0 0 8 27 11 # 952#52 # 10 0 0 8 27 27 # 152#52 # 10 0 0 1 12 20 # 152#52 # 10 0 0 0 00 # 152#52 # 10 0 0 0 00 # 152#52 # 10 0 0 0 00 # 152#52 # 10 0 0 0 0 0 | # 952455 # 50 0 # 11 12 \$ 955455 # 10 0 8 2 22 22 \$ 951545 # 20 0 7 2 2 20 # 1051545 # 10 0 8 2 2 12 # 1051545 # 10 0 8 2 2 12 # 1051545 # 10 0 8 2 2 22 | # 025125 | # 9511515 |

| Correct margaret | 951-56 | | | | | | | | | | (thousands) |
|---|---------|----------|------|----------|---------------|------------------------|---|---------------------------|--|-------------|----------------------|
| | Ditte | Shorton | | | Ch | Charges 1951-56 | ,, | | | | |
| Area | 4 | 1561 | - | Potal | By L and d | By Methy and deathy | Estimoted galt from arned forces | Errin ner bo by mig | Estimated net belonce by migration | Distr. B | Distribution 1956 |
| | No. | Per cent | No. | Per cont | No. | Per cent | No. | Me | 1 | | 1 |
| S | 8 | S | 9 | 5 | (9) | 8 | 1 | | 100 | No. | Fer cent |
| North West Region | 6380-0 | 0.001 | 51.0 | | | 3 | 6 | 8 | 68 | g | (72) |
| Monsey | 4.781.4 | 2 | | | 101 | 9-1 | 10. | 1.09 | 6.0 | 9.189'9 | 9 |
| South Water | | È | - | 6.0 | 96.3 | 2.1 | 9-2 | -66.2 | 4-1- | 4,822-1 | 75.0 |
| Manchester sub- | 2,601-1 | 40-8 | 2.5 | 1-0 | 32.2 | 1.2 | 1.4 | -33.8 | 1 | 2,670.6 | |
| region | 1,253-7 | 19.7 | -2.3 | -0.5 | 26.4 | 2.1 | 3.0 | 1 | | | 3 |
| Oldham sub-region | 265.8 | 70 | 7.5 | 9 . | 7. | 0.5 | 9 | 5.5 | 7 | 1,231.4 | 5.6 |
| Bolton sub-region | 236-3 | i i | 200 | 77 | 000 | 000 | 0. | 9 | Ť | 243.2 | 9 00 |
| Attractan sub-region | 25.0 | 3,5 | ** | 0.50 | | 5 - | *** | 1 | 7 | 233.5 | 3.6 |
| Rochdale sub-region. | 110.0 | no | 7 | 9 | ÷ | ė | 000 | 200 | - 0 | 25 | 9 |
| Leigh sub-region | 86-9 | | 1 | 1 | ō. | ö | 0-5 | -2.0 | | 117.8 | 7.7 |
| Stalybridge sub-region | 2 | 0 | 9 | 9 | 9 | 9 | 33 | 55.7 | 12 | 85.3 | |
| du reac sub-region | 38-0 | 9:0 | 9-0 | 7 | 0.4 | 0.0 | | 9 0 | 77 | 25.5 | 9.5 |
| Merseyside North Merseyside | 1,584-9 | 24.8 | 32.9 | 2.1 | \$2.9 | 3.3 | 2.3 | -33.4 | 3 | | |
| sub-region South Mersewick | 1,207-8 | 18.9 | 22-1 | | 43.4 | 3.0 | 0.1 | 550 | | 0.71071 | 9 |
| sub-region | 377-1 | 6.5 | 10.9 | 5.0 | 6 | 3.5 | 9.0 | | 7 | 6.67 | Ē |
| Warrington-Wigan area Wigan sub-resion | 395.4 | 6.5 | n e | 6.0 | 14-3 | 7.4 | 6-0 | | 7 | 388.0 | · · |
| Warrington sub- | | | 7.0 | 0.0 | * | 6.1 | 9.0 | 7.8 | 9 | 380-2 | n o |
| | \$17.4 | 9.0 | ÷ | 3.4 | 6.0 | * * | | | | | |

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| North Lancastire . | 1,238-4 | 19.4 | 1.0 | 9 | 1-4-1 | e-0 | 2-0 | 9.0 | 1 | 1,236-9 | 19.3 |
|---------------------|---------|------|------|------|-------|------|-----|-------|------|---------|------|
| | , | 9 | 3 | - 10 | 3.0 | 9 | 2 | 90.5 | 8-0- | 758.5 | 11.8 |
| - | 200 | 9 | 11 | 7 | 1 | 0 | 4:0 | - | -0.4 | 253.6 | 3.9 |
| To do | 200 | | | | | 7 | 0.3 | 0.5 | 0 | 206.9 | 3.5 |
| | 100 | 10 | | | | 9 | 0.0 | 1-1-1 | -1:1 | 175.0 | 2:1 |
| . poid | 200 | 9 0 | 1 | 10 | i | ė | ä | 7 | -1-1 | 6.89 | 9 |
| Suce . | 27.9 | 0.0 | 000 | 7 | 000 | 7-0- | : | -0-1 | -1.5 | Ē | 6-0 |
| nacaster-Pytoe | 368-8 | 8.5 | 9.0 | 7. | -4-3 | -1-2 | 9-0 | 8-7 | 2.4 | 373-9 | Š |
| Blackpool and Fyide | 258.3 | 4.0 | 5.5 | 2.1 | 9-5- | -1.5 | 6-0 | 0 | 3.3 | 263-8 | 4 |
| region. | 110.5 | 2.3 | -0.5 | -0.5 | 4.0 | 0.0 | 65 | -0.3 | -0.3 | 110.0 | 1.7 |
| | 106.0 | 1-1 | 7 | -1.3 | 8.0 | 0.1 | 0.5 | -2.4 | -2.5 | 104-6 | 1.6 |
| | 2000 | 9.3 | 12.4 | 3.5 | 7.9 | | 9.0 | 5.5 | 2 | 372-6 | 8.8 |
| 900 | 101.5 | 9.5 | 9.1 | 1.5 | 9-1 | 5.2 | 0.5 | 0.5 | 9 | 100 | 2 |
| glon | 92.7 | Z | 4.5 | 4.9 | 2.3 | 2.3 | ē | 2.5 | ** | 97-2 | 2 |
| d | | | | | | | | | | 91.10 | 7.7 |
| | 89.2 | 1 | 55 | 2.5 | 0.5 | 0.5 | 5 | 2 | | i i | :: |
| - residen | 3.52 | 1.5 | 4.5 | 9.6 | 2.5 | : | 0 | 9. | ž-1 | 78.9 | - |

la 13 Civilina nonnlasion aban-

| | Dieter | - Project | | | đ | Changes 1956-61 | | | | - | |
|---|---------|-----------|-------|------------|---------------|-------------------------|---|-------------------------|--|---------------------------------------|----------|
| Area | 8 | 9561 | e . | Total | By b and d | By birrhs and deaths | Entimated gain from armed feroes | Beth sar b by mil | Estimated net balance by migration | , , , , , , , , , , , , , , , , , , , | 1961 |
| | NG. | Per cent | Me. | Per cess | Na. | Per cent | No. | Ne. | Per cent | Ne. | Per cent |
| s | 8 | 5 | 9 | 9 | 9 | 3 | 9 | 8 | (07) | S | (ZD) |
| North West Region . | 6,431-6 | 100.0 | 0.011 | 1.7 | 133-7 | 2.1 | 36.6 | -60-3 | 6-0- | 6,541.6 | 100-0 |
| Mersey | 4,822-1 | 75.0 | 8:00 | 1.5 | 127-2 | 5.6 | 27.5 | 6-63- | 7 | 4,892.9 | 74.8 |
| South East Lancachire. | 2,603-6 | 40-5 | 18-1 | 1.0 | 45.9 | *: | 14.8 | 42.6 | 9-1- | 2,621-7 | 40.1 |
| region | 1,251-4 | 19.5 | -19.3 | -1.5 | 32.6 | 5.6 | 7. | -39-1 | -4-7 | 1,232-1 | 8.81 |
| Stockport sub-region | 263.2 | | 9 | 6.0 | 2:0 | ** ° | 9.5 | 8. | 7. | 304-8 | 4. |
| Botton sub-region . | 233.5 | 3.6 | ÷ | 0.0 | | 32 | | 9 | 77 | 222 | 2 |
| Altrinobam sub-region | 150-4 | 3.4 | 6-12 | 14.6 | 3.5 | 5 | 6.0 | 17-6 | 11.7 | 172.3 | 3,0 |
| Bury sub-region | 143-1 | ći ć | 6. | 1:3 | - | 0.5 | 8.0 | 0.7 | 0.0 | 144.9 | 2.2 |
| Leigh sub-region | 85:3 | | 77 | 11 | | 33 | 000 | 77 | 200 | 155 | 23 |
| Stalybridge sub-region | 5 | 2 | 7 | 7 | | - 6 | 6 6 | 7 | 100 | 2 6 | 22 |
| High Peak sub-region | 37.5 | 9. | ė | ? 9 | 0.5 | Ξ | 0.5 | 9 | 7 | 37.4 | 9-0 |
| Morth Mersenide | 1,617-8 | 25-2 | 47.9 | 3.0 | 65.3 | 0.4 | 7.6 | -26.7 | 7-7-7 | 1,665-7 | 23.4 |
| sub-region | 1,229-9 | 19:1 | 27.6 | 2.2 | 83.9 | 7. | 1.0 | -33:3 | -2:3 | 1,257-5 | 19-2 |
| sub-region | 388.0 | 1.9 | 20.3 | 5.5 | 11.5 | 3.0 | 5.5 | 9.9 | 1:1 | 408-2 | 6.2 |
| Warrington-Wigan area Wigan sub-region | 380-7 | 6.6 | \$E | 0 0 0 0 | 8:2 | 2:1 | 77 | 19.5 | 77 | 331-2 | 3.9 |
| Parishing to the same | * 000 | | | | , | | | | | | |

| North Lancashire | 1,236.9 | 19.2 | 52.9 | ÷ | ě | ė | - | - | • | | |
|-----------------------|---------|------|-------|------|------|------|-----|------|------|-------|------|
| | | | | | | | 4.4 | 9-5- | -0-1 | 2.652 | 11.6 |
| Ribble | 258-5 | | - | | 7 | 9 | 7 | -2.6 | -11 | 251-1 | ė |
| Blackhurn sub-region | 253.0 | | 7 | 1 | | | | 5.2 | 1.5 | 215.0 | • |
| Proston sub-region . | 506.9 | 3.7 | | 2.5 | | | | | 2.0 | 121.3 | * |
| Burnier sub-ration . | 175.0 | 2:4 | 1 | 7 | 7 | 5 | | 1 | 9 | 400.7 | '- |
| Charley sub-region . | 6.59 | 0: | 6.0 | - | - | Ξ. | 5 | , | | 200 | |
| Rossendale sub-region | 23.7 | 6-0 | 9-1-9 | 15.9 | -0-5 | 0 | 6 | ĩ | ì | , | • |
| | | | | 6.3 | 177 | 9 | 2.1 | 26.7 | 7.1 | 398-9 | ۰ |
| Lancaster-Fylde . | 273.9 | | i | | | : | | | | | |
| Blackpool and Fylds | | | 9 | 9.0 | -1.1 | 7.1- | 57 | 23.2 | œ | 254-8 | * |
| sup-region | 202.9 | - | | | | | 9.0 | 3.4 | 3.1 | 114-1 | _ |
| Lancaster sub-region. | 0.01 | - | | Š | | | | | | | |
| | | | | | 9.0 | 9.0 | 9-0 | 7-1- | 7 | 104-4 | _ |
| Furness | 104.0 | 9 | 7 | i | | | | | | | |
| | | ; | | 4.4 | 2.3 | 2.0 | 2:1 | 3.9 | 1.0 | 385-9 | 'n |
| South Cheshire | 372.6 | | 2 | | | | | = | - | 108.6 | _ |
| Cream sub-region . | 105-1 | - | 9.5 | * | 1.3 | 2 | | | | 201.0 | |
| Chester ushanolog | 97.2 | 1.5 | 7 | 4.5 | 2.1 | 2-2 | | 5 | | | • |
| Maccinefield sub- | | | | | | : | | ; | 4.0 | \$.00 | |
| | 91.5 | 7 | | 9.9 | Ξ | Ξ. | 2 | | | | |
| Northwich sub-realon | 78.9 | : | 7-0 | -0-8 | - | 7 | 6 | | i | | • |

Table 14 Civilian population chan

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| | į | - | | | ٥ | Charges 1961-64 | * | | | ä | 1 |
|---|---------|----------|-------|----------|-------|-------------------------|---|-------------------------|--|-----------|--------------------|
| Area | ii ii | 1961 | P. | Total | By 6 | By births and deaths | Entimated gath from armed forces | Ento ner b by mij | Estimated net balance by migration | one SI | Particulos 1964 |
| | No. | Per cent | No. | Per cent | No. | Per cent | No. | No. | Per cent | No. | Per cent |
| S | 6 | 5 | 9 | ଚ | 9 | Θ | (8) | 6) | (10) | an | (13) |
| North West Region | 6,541-6 | 100.0 | 120-3 | *: | 114-0 | 1:1 | 6.9 | -0.2 | 1 | 6-199/9 | 0-001 |
| Mersey | 4,892.9 | 74.8 | 9.88 | 1.8 | 6-101 | 2-1 | ** | -181 | -0-4 | 4,981-5 | 74.8 |
| South East Lancashire. | 2,621-7 | 40-1 | 38.6 | 1.5 | 44.7 | 1-2 | 2.6 | 1-8-1 | -0-3 | 2,660-3 | 39.9 |
| region | 1,232-1 | 18-9 | 6.5 | 0.5 | 25.9 | 2.1 | 1:2 | -33.0 | -2.7 | 1,226-2 | 18-4 |
| Oldham sub-region | 217.3 | | 200 | 5.7 | 6.50 | 9.0 | 66 | 12.7 | 4.6 | 323-8 | 40 |
| Botton sub-tegion | 232-3 | 3.5 | 5.3 | 0-1 | 5.6 | Ξ | 0.0 | 9 | 9 | 234.6 | 9.5 |
| Altrinoham sub-region | 175-3 | 9 6 | 9.5 | 6.0 | 5.0 | 77. | 5.5 | | 4.7 | 184-2 | 9 9 |
| Rochdale sub-region. | 115:5 | 3 64 | 2 | 10 | 2 | 200 | 5 5 | 21 | * - | 9.57 | 200 |
| Leigh sub-rogion | 22.0 | 2 | 7 | 1 | 9 | -2 | - | ò | - | 8.4 | |
| High Peak sub-region | 37.4 | 9 | 0.5 | 0 4 | 50 | 9 9 | Z I | öö | -0- | 340 | 9-0 |
| Merseyside | 1,665-7 | 23-4 | 31-1 | 6-1 | 44.5 | 2:7 | 1-1 | -15:0 | 6-0- | 1,696-8 | 25.5 |
| sub-region | 1,257-5 | 19:2 | 19-7 | 1.6 | 33.6 | 5.8 | 1.3 | -17.2 | 7 | 1,277-1 | 19-2 |
| sub-region | 408-2 | 6.2 | 11.5 | 89 | 6.0 | 2.2 | * | 2+2 | 9.9 | 419-7 | 6.3 |
| Warrington-Wigan area Wigan sub-region | 381-2 | 5.63 | 9:5 | 7.7 | 12:7 | 22 | 9.6 | 2:3 | 6.6 | 390-5 | 5.6 |
| region | 224-2 | 3.4 | 6.5 | 4.3 | 6.1 | 2-7 | 0.5 | 3-3 | 1.5 | 233-9 | 3.5 |

| Vorth Lancachier | 1.262-8 | 19-3 | 16-2 | 2 | 9.5 | 9-9 | ? | r- 00 | 0-4 | 1,279-0 | 19-2 |
|-----------------------|---------|------|------|------|------|------|-----|----------|------|---------|------|
| | | | | 6.0 | 6.9 | 0.0 | 0.0 | -2.7 | 0.3 | _ | 11.5 |
| iphie | 139-3 | | | 5 | | | 0.0 | 6.0 | *-0- | _ | ě |
| Mackbarn seb-region | 231-1 | | 70 | | | | | 0.1 | 0.5 | _ | ÷ |
| Presion sub-region . | 215.0 | 200 | | | | 46 | 200 | 2.0 | -1-5 | _ | ě |
| Berniev erb-region | 171.3 | 5.6 | 7 | ė | 6.0 | 5. | 5 0 | | | _ | ÷ |
| Observed and analogs | 2.99 | 9: | - | 6: | 0.0 | 9.1 | 5 | | | | ė |
| Rossendale sub-region | 55-4 | 6.0 | 9.0 | -1-2 | 0.5 | +-0 | - | 1 | 0.7- | _ | ٠. |
| and and Philip | 6-866 | 1.9 | 0.11 | 2.8 | -1.5 | -0.3 | 0 | 11.8 | 3.0 | | ۰ |
| Blackpool and Pylde | | | | | 3 | 9.0 | 0.3 | 9 | 3.1 | _ | ÷ |
| sub-region | 284.8 | 4 1 | 0.74 | 8.7 | 0.0 | 0.0 | - | 5.0 | 5.2 | _ | - |
| Darrette . | 4-101 | 1.6 | 0.5 | 0.5 | 9.0 | 9.0 | - | -0-3 | -0.5 | 104-7 | - |
| | | | | 9.9 | 0.5 | - | 9-0 | 9.5 | 2.4 | _ | ٠ |
| Seath Cheshire | 260.5 | | 200 | | | 9 | ö | 2.0 | ** | _ | Ė |
| Chester sub-region | 9 6 | 2 | | 4 | 6 | 6. | ö | ** | 7, | | _ |
| Macelesfield sub- | 97.5 | 1.5 | 5-9 | 4.6 | 27 | 2 | 0 | 7 | 3.2 | | |
| Northwich sub-region | 78.5 | 7.7 | 10.1 | 9.0 | 9.0 | 2 | | | ; | - | |

North West Region

South East Lancushire

Manchester sub-region

Altrincham sub-region

Bury sub-region .

Stalybridge sub-region

High Peak sub-region

North Merseyside sub-region .

South Mersoyside sub-region

Rochdale sub-region

Leigh sub-region

Warrington-Wigan area

Wigan sub-region .

Blackburn sub-region

Preston sub-region .

Burnley sub-region

Checky sub-region

Lancaster sub-region

Corton solvension

Chester sub-region . Macclesfield sub-region

Northwich sub-region

Lancaster-Felde

Furness

South Cheshire

129

Rossendale sub-region

Bischnool and Fylde sub-region.

Warrington sub-region

Merseydde

North Lancoshire

Stockport sub-region

Oldham sub-region

Bolton sub-region .

Mersey

No. (2) -12·0 -13·2 -6·8

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-0.2

-0.4 | -0.34 | -0.5 | -0.45

-0.1 -0.20 -0.4 -0.61

-0.2 | -0.51 | -0.2 | -0.42

-4-5 -0-28 -5-3

-4.6

-2.0 -0.33

-0-4 -0-20

0-1 0-01

-1.2 -0.15

-0.2 -0.08

-0·6 | -0·35 | -0·7 | -0·41 | -0·7

-0·1 | -0·24 | -0·3 | -0·62 | -0·4 | -0·65

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-0-45 -0-3 -0-27 -0-2 -0-15

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-0.7 | -0.31

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Table 15 Civilian population: mean annual changes by migration North West Region 1951-56, 1956-61 and 1961-64

Table 16 The proportion of the population of Great Britain resident in the North West Region 1801-1964

| | | Population of No | eth West Region | |
|------|--------------------|---|--------------------|--|
| | En | merated | | Dellian |
| Year | No. (thousands) | Percentage of the population of Great Britain | No. (thousands) | Percentage of the populatio of Great Britain |
| (7) | (2) | (3) | (4) | (5) |
| 1801 | 866 | 8-2 | _ | _ |
| 1811 | 1,056 | 8-8 | ł – | _ |
| 1821 | 1,323 | 9-4 | - | - |
| 1831 | 1,671 | 10-3 | 200 | - |
| 1841 | 2.063 | 11-1 | - | _ |
| 1851 | 2,487 | 11.9 | _ | _ |
| 1861 | 2,935 | 12.7 | _ | _ |
| 1871 | 3,381 | 13-0 | _ | _ |
| 1881 | 4.098 | 13-8 | - | - |
| 1691 | 4,657 | 14-1 | | - |
| 1001 | 4,651 | 14-1 | _ | _ |
| 1901 | 5,215 | 14-1 | 1 - | _ |
| 1911 | 5,723 | 14-0 | - | _ |
| 1921 | 5,954 | 13-9 | | - |
| 1931 | 6.128 | 13-7 | _ | 1 |
| | 6,197 | 13-8 | - | - |
| 1941 | No census | No census | - | 13-2 |
| 1951 | 6.447 | 13-2 | 6,380 | 12.8 |
| 1961 | 6,567 | 12.8 | 6,542 | 12-8 |
| 1964 | _ | _ | 6,662 | 12.1 |

mid-year extinutes for 1951, 1961 and 1964 are given for comparison; equivalent estimates are not available for earlier years. 2. The figures for years prior to 1931 do not cover the High Peak area of Derbyshire. Those for years prior to

1891 are for aggregates of Ancient Counties; subsequent ones relate to areas as constituted in 1964. Bridging figures are given for 1931 and 1891.

Table 17 Population by place of birth North West Region and England and Wales 1951-61

| | | | | Propor | tion per repulation | Change, | 1951-61 |
|---|--------|---|----|------------------------|------------------------|-------------------------------------|-------------------------------------|
| Birtholoce | | | | (1961 | Census) rated in | | |
| | | | | North West Region | England and Wales | North West Region (thousands) | England and Wales (thousands) |
| (1) | | | | (2) | (3) | (4) | (5) |
| All areas | | | ٠, | 10,000 | 10,000 | 120 | 2,347 |
| British Isles | | | | 9,782 | 9,621 | 137 | 1,592 |
| England and Wales | | | | 9,453 | 9,283 | 113 | 1,681 |
| Rest of British Isles | | | | 329 | 338 | 24 | 311 |
| Scotland Northern Ireland Irish Republic Isle of Man and Channel I | slands | : | | 117 50 151 12 | 142 41 148 7 | 4 6 16 —2 | 73 53 190 |
| Other sress | | | | 218 | 379 | 16 | 355 |
| Commonwealth, colonies, etc. | | | | 62 | 143 | 15 | 340 |
| Foreign countries and at sea | | | ·Ì | 96 | 165 | -9 | 340 114 |
| Remainder | | | | 60 | 71 | 22 | 99 |

NOTES:

I. The figures for persons been in the British Isles include both residents and visitors; figures given for Overseas-born are of residents only.

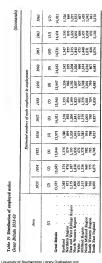
The figures for the Irish Republic include totals for "Ireland, parts not stated".

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The "remainder" includes all those for whom no birthplace was stated and visitors born outside the British.

| Office persons about | | | | | | loses, | transferred (feeself) is essignment | colc) is con | Seyment | | |
|------------------------------|--------|-------|----------|-----------|--------------|---------|-------------------------------------|--------------|---------|--------|--------|
| | | | Estimate | Tantana I | st cutualies | a (none | Total and | | | | |
| Area | 1953 | 1954 | 1955 | 1936 | 1927 | 1958 | 1959 | 1969 | 1961 | 1962 | 1967 |
| | | 9 | 9 | 9 | 9 | 8 | 8 | 8 | 85 | ŝ | (23) |
| S | 3 8 | 2000 | 387.10 | 21.511 | 21.599 | 21,643 | 21,488 | 21,937 | 22,250 | 22,476 | 22,484 |
| Great Britain | 100'00 | 1000 | | | | | | - | ,010 | 1010 | 2 001 |
| Scotland | 2,076 | 2,102 | 3,112 | 2,122 | 2,119 | 2,074 | 1,263 | 1,270 | 151 | 161 | 1,257 |
| Northern Region | 98 | 806 | 1.82 | 1847 | 1,855 | 1,832 | 1,821 | 83 | 3,000 | 2000 | 2.00 |
| East and West Assess Acquire | 2,679 | 2,927 | 2,955 | 2,956 | 2,936 | 2,92 | 6,87 | 3 | 8 | 956 | 928 |
| Wales | 922 | 924 | 2 | 8 | 200 | 3112 | 2.122 | 2,205 | 2,223 | 2,254 | 2,255 |
| | 1,996 | 2,056 | 1,458 | 1478 | 1,490 | 1,482 | 1,482 | 1,521 | 25 | 1,568 | 250 |
| North Midland Region | 1,419 | 1,47 | 997 | 1 | 181 | 1,174 | 961 | 1,219 | 200 | 8 108 | 8,243 |
| South Western Rogson | 7,182 | 7,325 | 7,475 | 165'4 | 1,674 | 7,633 | 0777 | 1,500 | i di | | |

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| Industry | |
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| Ξ. | to | |
| yes by 1 | 959-63 | |
| changes by 1 | md 1959-63 | |
| ment changes by 1 | 3-59 and 1959-63 | |
| aployment changes by 1 | 1 1953-59 and 1959-63 | |
| 11 Employment changes by 1 | reat Britain 1953-59 and 1959-63 | |

| | | | Chan | ther in estim | oved number | Charges in enimoted mankers of employees in employment | ter In employ | went | | |
|---|---------|--------------------------------|---------|---------------------------|-------------|--|-------------------------|--------------|--|----------------|
| Item | All for | All industries and services | Prin | Primary indutries | Manufa | Manufacturing industries | Countr | Countraction | Service indu (excludit Construct | India India |
| | 1953-59 | 1959-63 | 1953-39 | 1959-63 | 1953-59 | 1959-63 | 1953-59 | 1939-63 | 1953-59 | - |
| s | 8 | 5 | 8 | S | 8 | 8 | 8 | 8 | (10) | _ |
| Great Britain , Total Male Female | 3.0 | 34.6 | 9.66 | -16.0 | 6.2 | 247 | 3.3 | 222 | 3.5 | |
| Scotland Total | 1 2:0 | - 0.8 | 1 5.5 | - 18.9 - 19.8 - 9.4 | 111 | 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 1 1-1-2 31-8 31-8 | 12.96 | 3.2 - 0.3 7.1 | |
| Northern Region Total | 3.2 | - 0-4 | - 6.7 | -20-3 | 9 | - 1.9 | 5.6 | 8.9 | 4.7 | |

SS 54-Nr. 20 ---

250 647 377 250 657 777 5 ± ± ---985 41.0 000 onn HAR 13.9 877 331 233 Mate Female Fema

9.16 222 999

24.9 2.6 2.6 3.1 3.1 3.1

| North Midhad Region | Male France | 244 | 646 | 111 | 616 | 2004 | 4.0 | 32.5 | 325 | 5.5 | 5.5 |
|----------------------|--------------------------|-------------|--------|--------------|-------------------------|--------------|------|-------|----------------|-------|-------------|
| South Western Region | Total Maie Fersale | 6-3 10-5 | 2.3.2 | -12-6 8-3 | 111.6 | 9 <u>0</u> 8 | 41.4 | 3.3 | - 9 6 2 8 6 | 3.4.1 | 8-0 13-5 |
| South East England | Yotal Male Forms | 2.0.0 | \$ 0 E | 113.4 | -16-0 -18-5 - 3-4 | 8:3 | 6.65 | B 5.5 | 26.2 | 244 | 40.00 |

1963

6561

1959

1953

Industrial Order Title

North Pestern Region 9500

North Pertern Region

North Festern Region

North Vestern Region 2.878 88

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Estimated numbers of employees (total-male and female) in employment

570-9 2111-2 2111-2 2111-2 776-4 61-6 61-6 61-6 61-6 620-6 366-8

16.59.54.55.55

2,427.9 268.2 268.2 8,60.1 578.3 578.3 578.3 581.3 581.3

282.3 282.3 262.3 282.3 282.3 282.3 282.3 282.3

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1.540-4

174.7

378

156-2

1,364-7

156.3

305-8

54.4

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1,341

355

857-4 538-5 602-5

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2,894-3 99 1352

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Agriculture, Forestry, J Mining and Ocarryins

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11,126-4 1344-4 274-3 1,625-2 2,694-3 527-4 1,916-8 1,940-6 10,333-7 255.2 266.2 256.2 217.8 217.8 217.8 281-7 374-2 1,628-2 2,541-0 527-4 1,853-7 1,893-8 1,893-8 72.09-2 22.09-2 22.09-3 443-5 1,891-9 Service Industries (excluding Count

| | 9 and 1963 |
|-------------------------------|---------------------------------|
| sloyment by Industrial Orders | ion and Great Britain 1953, 195 |
| able 23 Male emp | orth Western Regi |

| | Patricial Order | | Z. | timated ma | ivers of mak | Estimated numbers of male employees in employment | н епредория | 'n | |
|-----|--|----------------------------|-------------------------|----------------------------|-------------------------|---|-------------------------|----------------------------|-------------------------|
| | JAMANTTAN OTANT | 81 | 1953 | 61 | 959 | 1959 | 2 | 19 | 1963 |
| i i | Title | North Western Region | Great Britain | North Western Region | Grent | North Western Regrion | Great Britain | North Western Region | Great |
| | (3) | 8 | 3 | 6 | 9 | 8 | 8 | 6 | (01) |
| | All fadustries and services | 1,800-2 | 13,537-0 | 1,807-2 | 13,946.8 | 1,807.2 | 13,946.8 | 1,832-7 | 14,421-3 |
| | Primary Industries | 93-3 | 1,491-3 | ģ | 1,352.0 | 80.1 | 1,355-0 | 62-9 | 1,122-2 |
| -= | Agriculture, Forestry, Fishing Mining and Quarrying | 29.5 | 634.6 | 72.7 | 548-8 803-2 | 57.4 | 548·8 806·2 | 20·0 42·9 | 461-9 |
| | Manufacturing industries | 9990 | 5,445-1 | 863.0 | 5,784-1 | 867-5 | 8,610.8 | 874-4 | 5,840-6 |
| 표점> | Food, Drink and Tobacco Chemicals and Alliod Industries Metal Manufacture | 85.5 37.2 | 459-9 346-8 515-4 | 27.9 | 487.5 389.7 520.3 | 38.5 | 442-1 373-2 502-6 | 99.3 32.3 | 461-0 371-1 518-7 |
| X F | Ampliocering and Alexandel Goods and Metal Goods Shipbuilding and Marine Engineering | 228-3 | 1,586-8 | 38.8 | 255-2 | 38.2 | 253-5 | 28.6 | 1,916-3 |
| ×× | Textiles Textiles Leather, Leather Goods and Fur | 152.5 | 43-2 | 130-5 | 37.0 | 88.9 | 32.7 | 9.60 | 8 8 8 5 5 5 |
| BH. | Cothing and Footwear Bricks, Pottery, Glass, Coment, etc. | 83 | 250.8 | 32.5 | 247.4 | 36.2 | 246.4 | 325 | 260-4 |
| 325 | Timber, Furnitue, etc. Paper, Printing and Publishing Other Manufacturing Industries | 3 4 5 | 147:2 | 325 | 378-3 | 325 | 368-2 | 325 | 186.8 |
| νπ | Construction | 149-3 | 1,259-1 | 149-1 | 1,300-8 | 149-1 | 1,313-9 | 1.991 | 1,460-4 |

| | in the 1948 those | as defined isally from | st Headings differ marg | Minimum Li | m data for l similarly con tion. | perpited from have been a al Chestifican | have been o nos 5 and 6 ard Industri | and 4 I | initians of meason scriptors 1938 is colorent 2 and 4 kms been compiled from data for Meinstern List Beadings as defined in the 1948 citizent of the 1949 scribtors and 1949 estimated in administration of the 1949 citizen transplantly from those and elegency and a scriptors and its administration of the 1949 Standard and Industrial Candidated and a scriptor of the 1949 Standard and Industrial Candidated and a scriptor of the 1949 Standard and Industrial Candidated and a scriptor of the 1949 Standard and Industrial Candidated and a scriptor of the 1949 Standard and Industrial Candidated and a scriptor of the 1949 Standard and Industrial Candidated and Industrial | The estima Standard I |
|---------|----------------------|---------------------------|----------------------------|------------|--|--|--|---------|--|--------------------------|
| 958-6 | - 1 | 903-1 | 8.7 | 2023 | 818 | 965-5 | 107.4 | | Professional and Scientific Services Miscaltaneous Services Public Administration and Defence | |
| 331-4 | | 303-2 | 31.6 | . NS:2 | 33.3 | 296.7 | ģ ģ. | | Distributive Trades | × |
| 1,351-8 | 203-5 | 1,380-8 | 216-1 | 1,383 | 215.4 | 1,460.9 | 223-2 | | Gas, Electricity and Water | жиш |
| 5,998-1 | | 1.199'5 | 710.5 | 5,509-9 | 695-3 | 5,341-5 | 691-6 | - | Service industries (excluding Construction) | |

24 Female Employment by Industrial Orders

| istern Region and Great Britain 1953, 1959 and 1963 | and 1963 | 1 | | | | | | (thousan |
|--|----------------------------|------------------------|--|---|----------------------------|-----------------------|---|------------------|
| Industrial Order | | Ente | eated assiste | Estimated numbers of female employees to employment | employees to | з ещејоумех | , | |
| | SI | 1983 | 18 | 658 | 79 | 6562 | 24 | 1963 |
| मध्य | North Western Region | Great | North Western Region | Great | North Western Region | Great | North Western Region | Great Britain |
| (3) | ව | 9 | S | 9 | 8 | (9) | 8 | 95 |
| All infiniteless and services | 1,078-5 | 7,054-2 | 1,087-1 | 7,540-8 | 1,087-1 | 7,540-8 | 1,096-9 | \$,063 |
| Primary industries | 7-8 | 120-8 | 8:9 | 116.5 | 9-9 | 116-4 | 9.9 | 18. |
| Agriculture, Forestry, Fishing Mining and Quarrying | 3.0 | 19.9 | 3.9 | 92-3 24-2 | 5.0 | 24:1 | 5.0 | 28 |
| Mazufactering industries | 9-295 | 2,774-2 | 517-9 | 2,777-0 | 502-3 | 2,692-9 | 467-2 | 2,740- |
| Food, Drink and Tobacco Chemicals and Albed Industries Metal Massellocture | 8.82 6.2.4 | 345:3 139:7 80:4 | 86 55 5 5 5 6 5 6 5 6 5 6 5 6 6 6 6 6 6 6 | 369-9 148-8 82-2 | 38. 4.7. 6.2. | 38.4 142.1 70.2 | 28.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 | 334 |
| Engineering and Electron Crooss and Metal Goods Shipbuilding and Marine Engineering | | 594-2 13-1 | 78.0 | 13:0 | 78-1 | 677-2 | 87-7 | ğ : |
| Vehicles Textiles | 219.5 | 261.0 | 18.2 | 2.67.5 | 189-1 | 467.0 | 123.3 | 55 |
| Clothing and Footwear | ÷ 65 | 4 4 | 52.5 | 123 | 7-1-1 | 398.0 | 9.57 | 3 6 |
| Bricks, Pottery, Grass, Centent, etc. Timber, Furniture, etc. Paner, Printing and Publishing | 26.95 | 25.2 | 28.7.8 | 61.5 | 26.6 | 27.8 | <u> </u> | 5 8 5 |
| Other Maguelacturing Industries | 50.4 | 103.6 | 19-7 | 1 | 19-8 | 110-1 | 19:1 | 8 |
| . Construction | | 46.7 | 7.5 | 6.6 | 7:1 | 6.99 | 9.0 | 90.08 |

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XVII



to 25 Total employment changes by Industrial Orders

| Britain 1953-59-63 | | | | | 9 | (percer |
|--------------------------------|----------------------------|--|-------------------------------------|------------------|----------------------------|---------|
| Industrial Order | Changes is | Changes is estimated marchers of encologues (total—stade and fens in exployexen | anders of employed in employment | physer (ron | si—stan'e and | July, |
| | 1981 | 1953-63 | 195. | 1953-59 | 193 | 1959-63 |
| Tole | North Western Region | Great Britain | North Western Region | Great Britain | North Western Region | 9.5 |
| (2) | 5 | 9 | (3) | 9 | 8 | L |
| | ** | 9-1 | 0.3 | 4-3 | 1:2 | |
| | -32-1 | -23.5 | -14-6 | 6.8 | -20-4 | ï |
| y, Fishing | -30-0 | 124 | -10.4 | 12.8 | -25.2 | TT |
| | 9 | 3.6 | 6:1- | 4-2 | -2-1 | |
| bacco | 15.0 | 80 60 | 13.4 | 5.9 | 10 | |
| trical Goods and Metal Goods . | 282 | 122 | 200 | -E9 | 455 | |
| ods and Pur | 96.67 | 13.3 | 10.0 | 115.8 | 21.4 | - 11 |
| s, Cement, etc. | * | 9 - | -11-5 | | 0.0 | ı |
| vablishing Industries | 25.5 | 0 22 2 0 25 2 0 25 2 | 3.6 | 722 | 164 | |
| | 13.2 | 16-8 | 1.2 | 4.5 | * 11 | = |
| | | | | | | |

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| XVIII Consequent Conseque | action) | _ | | - | |
|--|---------|---|---|------|------|
| And Agricultus West | | _ | _ | | 9 |
| Tringer at Commission 11-6 15-4 11-6 Dutchoker Table at Practice 12-6 15-5 Dutchoker Table at Practice 12-6 15-6 Dutchoker Table at Practice 12-6 15-6 Dutchoker Table at Practice 12-6 15-6 Dutchoker Service 12-6 Du | 6.0 | | _ | 15.8 | -1.2 |
| Districtive Profit Distric | 7.00 | _ | _ | _ | |
| Instructor, Banking and Plimate 1579 157 | 200 | _ | | _ | 14:2 |
| Processional and Scientific Services . 2.59 5.44 - 3.9 Miscallazour Service and Defence . 3.9 5.4 - 4.6 Public Administration and Defence . 4.6 | | _ | _ | _ | 15:5 |
| Miscellaneous Services Miscellaneous Services Publis Administration and Defence 5-0 6-6 -4-6 | | _ | _ | _ | Š |
| Public Administration and Defence | | _ | _ | _ | 7.5 |
| | | _ | _ | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Region and Great Britain 1953-59-63 | | | | | | ē | (percentages) |
|---|------|----------------------------|------------------|--|------------------|----------------------------|---------------------|
| Padastriol Order | 5 | inges in | estinsoled | Charges in estimated numbers of male employees in employment | nale entoloy | tes in empire | protest |
| | - | 1953-63 | 9 | 195 | 1953-59 | 190 | 1966-63 |
| Title | x 58 | North Festern Region | Great Britain | North Western Region | Great British | North Western Region | Great |
| 8 | | 5 | 8 | S | 9 | 8 | 9 |
| All industries and services . | - | | 6.9 | 9. | 3.0 | 1.4 | 3.4 |
| Primary industries | ï | -32-8 | -24-9 | -14.5 | -6-3 | -21.5 | -17-2 |
| Agriculture, Forestry, Fishing Mining and Quarrying | *** | -32-2 | -27:2 | -23-1 | -13.5 | -11.9 | 1.15.8 |
| Manufacturing industries | | 99 | 10-6 | 2.0 | 6.2 | 8.0 | - |
| Food, Drink and Tobacco Chembels and Allied Industries Metal Manufacture | | 200 | 10.5 | 100 | 0.45 | 5.4 | 4 0 8 9 |
| Engineering and Electrical Goods and Metal Goods Shipbuilding and Marine Engineering Valuelee | | 22.5 | 20.1 | 44. | = 9 | ÷ : ; | -25.5 |
| Textiles Leather, Leather Goods and Pur | | 32.0 | 10.0 | 44.0 | 17.4 | 12.6 | 11.0 |
| Colching and Poterver. British, Potersy, Glass, Cenerit, etc. Timber, Permitture, etc. Paper, Priesing and Publishing Other Manufacering industries | | # 3 9 E P | 24 1 8 E | ## 7 ± 9 | 24546 | 55.55 | 1.9 10.7 11.4 |
| Construction | - | 1:3 | - <u>+</u> | 9 | 3.3 | 1.1 | 11-2 |

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XVII



| | | | | Γ | 1 | the section | | 1 | | 1 |
|---|--|---|--|--|----------------------------|------------------|----------------------------|------------------|-----------------------------|--|
| Industrial Orders | | | | _ | Cumulan | a w earmone | A Automotra of | Jemes ento | oyes in en | noymen |
| 1 | | | | | 783 | 59-63 | 267 | 3.59 | 198 | 1959-63 |
| - | | | | | North Western Region | Great Pritain | North Western Region | Great Britain | North Western Begston | Great |
| | | | | _ | 5 | S | හ | 8 | 8 | 8 |
| ٠ | | , | | | 1-7 | 14-1 | 0-8 | 6.3 | 6-0 | 6.9 |
| | | | | | -23-1 | 9-5- | -16-7 | 9.6- | -1.1 | -2-1 |
| | | | | | -16.7 | 11.5 | -18-8 -15-3 | -8 · S 21 · 6 | 2.6 | 0 86 20 86 |
| | | | | | -14-4 | 1.9 | 6-2-9 | -6 | -2.0 | ~ |
| | | | | | 9-01 | 8.9 | 13-6 | 1-1 | -2.6 | 1.6 |
| ٠.; | ٠., | ٠. | | | -13.5 | 3.9 | 15.3 | 9 6 | 14.8 | 3.6 |
| Engineering and Electrical Goods and Metal Shipboilding and Marine Engineering | 8. | # | | | 18.1 | 12:32 | 9.5 | 7 9 | 123 | 7.4 |
| | | | | | 35.7 | 9.0 | 12.6 | 9 | 8 | ē. |
| ٠. | ٠. | ٠. | | | -28-7 | 9 | 14.6 | 19:1 | -22-0 | Ť |
| | | | | | -11-3 | 6.2 | 200 | 9 6 | 0-3 | -0-1 |
| | | | | | -19.0 | 0.8 | -21:3 | 6.9 | 2.9 | 9 |
| | | ٠. | | | 16.8 | 12.0 | 4 | 12 | 19:5 | 9.5 |
| | | | | - | 71.0 | 68-7 | 41.2 | 36.8 | 7.7 | 5.53 |
| | Figure and Count Institute (1923-992.) Figure and Count Institute (1923-992.) Advanted (1924-992.) Figure and Street (1924-992 | re quido martine la planta di chera Propos and Great Planta in 1955-965. Antannia Great I anno 1955-965. Antannia Great I anno 1955-965. The baseries and great anno 1956-965. The baseries anno 1956-965. | Figure and Colors Bristolia Delication (1992-1994). I statistical Outers (| A formation of the state of the | | | | | | Clayer in amount marker of pleade explayers in proceedings Proceding Pro |

| | and the state of the Constructions | | | | 18.9 | _ | 25.2 | 30-4 | 11-2 | 2.4 | 0.00 |
|--------|--|---|---|---|------|---|------|-------|------|-------|-------|
| | Service Danstrice (Consumed Consumers) | | | | _ | - | | | : | 4.7 | 14.5 |
| | | | | | 2 | - | 27. | 2.91 | | | |
| ****** | Cas Electricity and Water | | | | | | 7.7 | 4.4 | ò | Ÿ | n - n |
| XVIII | Cate, Land Commencerion | | , | , | | - | | | 10.4 | 6.9 | 10.3 |
| XX | Transport and Commission | | | | Ŕ | | Ŕ | 2.17 | 10.4 | | 000 |
| 3 | Distribution Trades | | | | | | | 36.8 | 26.8 | 29.91 | 40.2 |
| 4 | Tourseast Benefiter and Finance | | , | , | R | | 1 | 12.3 | 9.00 | 18-7 | 13.5 |
| XX | Timori areas of the control of the c | | | | - | , | 9 | | | | *** |
| HAA | Professional and Scientific Scryscal . | | | | | , | | 2.5-1 | - | 2 | 7. |
| TVV. | Art and Sanston | | | | | | , | | 4.3 | 14.7 | 12.3 |
| XXIII | Odlaconinous services | | | | 18 | | 0./1 | 3.0 | | | |
| AXXX | Public Administration and Deterror | | | | _ | | | | | | 1 |
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| | Industrial Order | Mean | employees | pound rates (total—reals | of charge h | Mean orninal compound rates of charge in entionical numbers of emphysees (sons—male and femile) in emphysican | unthere |
|-------|--|----------------------------|------------------|-----------------------------|------------------|--|------------------|
| 1 | | 195 | 1953-63 | 198 | 1953-59 | 193 | 19-866 |
| No. | Title | North Western Region | Great Britate | North Western Region | Great Britain | North Western Region | Great Britain |
| s | 8 | S | £ | 8 | 9 | 8 | 8 |
| | All infautries and services | 0.5 | 6-0 | 0-1 | 0.7 | 6-3 | Ξ |
| | Primary Industries | 9:6 | -2.6 | -2.6 | 7 | 5.5 | 4 |
| | Agriculture, Forestry, Finding Mining and Quarrying | 5.6 | -2.3 | 1.9 | -2.3 | -2.5 | 44 |
| | Masufacturing industries | Ŷ | 0-7 | Ŷ | 0.7 | ě | 8.0 |
| HV-XI | Peoel, Drint and Tobacco Centricist and Albel Industries Metal Manufacture Engineering and Betretal Goods and Metal Goods Silppetiding and Metal Goods | 4.00 | 2522 | 7222 | 12221 | 2442 | ****** |
| ₽פ | Venicles Textiles Leather, Leather Goods and Per- | 27 | 144 | 200 | 1 2 | 100 | 1000 |
| 関 | Clothing and Pootwear. Bricks, Pottery, Glass, Cement, etc. | 77.9 | 66 | 50. | 9 7 7 | 777 | 90 |
| žžž | Timber, Furniture, etc. Raper, Principa and Publishing Other Manufactoring Industries | 23.0 | 5555 | 22.28 | 20,40 | 2000 | -585 |
| II.X | Construction | 1-2 | 9.1 | 0.5 | 0.7 | 5.0 | 8,7 |



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| aployment changes | |
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| n ammal male employment changes | |
| Mean annual male employment changes | |
| 29 Mean anunal male employment changes | |
| | |
| Table 29 Mean annual male employment changes | |

| | Industrial Order Title (3) | | | Mea | | | | | |
|---------------------|---|-------------|---|----------------------------|------------------------|---|------------------------------|----------------------------|------------------|
| - 2 | | | | | a attessal con of a | Mean around compound rates of charge in estimated numbers of reals employees to employment | of charge in vs to employ | entimated n | emberg |
| | | | 1 | 195 | 69-5561 | 193 | 1933-39 | 195 | 1959-63 |
| 4 A Z | - | | | North Western Region | Great Britain | North Western Region | Great | North Western Region | Great Prinate |
| - A 2 | | | | 5 | 9 | ල | 9 | 8 | 8 |
| A 2 | id services | | | 0.5 | 9-0 | | 0.3 | 6.9 | ö |
| 2 | | | | -3.9 | -2.8 | -2.6 | 9.5- | 9 | Ĭ |
| 2 | Agriculture, Forestry, Fishing Mining and Quarrying | | | 3.6 | 13.1 | 77 | 77 | 13.1 | 77 |
| | Idestries | | | 0.3 | 9 | | 9 | | |
| | and Tobsoo | | | | | | 2 | 7.0 | 2 |
| | Chemicals and Allied Industries | | | | 23 | 2.1 | 0.0 | 7 | 1 |
| | ecture | | | 9 | 9.0 | | 200 | 7 | 000 |
| | Charles and Excellent Goods and Metal Goods | detail Good | | 7.1 | 2.1 | 0.1 | 10 | 100 | Š |
| | und austring Engineering | | | 9.7 | -3.0 | 9 | - | | 3 . |
| | | | | 1.4 | 1.1 | 0.5 | 00 | 2.8 | 2 |
| _ | or Goods and Day | | | -3.5 | 9 | 9.5 | -1.3 | -4-2 | 9 |
| | Footware | | • | 3.6 | -1.0 | 4.4 | -2.6 | 75.0 | 9 |
| _ | Boicks. Pottery, Gines Comment and | | • | 5.7 | 9 | -2-1 | -1.3 | 9.0 | Ö |
| _ | lure, etc. | | | - | 0.4 | 1.3 | -0.5 | 6-0 | 1.4 |
| XV Paper, Printing | Paper, Printing and Publishing | | | 0 | Ÿ | 9.7- | 4.0- | ő | 0.4 |
| _ | Other Manufacturine Industries | | | NO I | 5.0 | 5.2 | 2.7 | 3.1 | 2.6 |
| | | | | 1.1 | 2.8 | F. 7 | 5.8 | 2.5 | 2.3 |
| XVII Canstruction . | | | | 3 | 7.1 | | , | | |

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| | | | _ | _ | _ | _ | 1.00 | _ | 1.5 | | |
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| 0.0 | | ě | | 7 | ò | - | 4.1 | 2 | - | | |
| 4:0 | | 9.0 | | 0.1 | 1.1 | 2.2 | 2.7 | 0-3 | 9.0- | | |
| | | | ì | 9-0- | 1.5 | 67. | 5-0 | -0.5 | -1-2-5 | | |
| | 6.0 | | 4 | 9.0 | | 273 | 11:1 | | 0 | , | |
| | 6.0 | | 9 | 9.1 | 10 | | 27 | 1 1 | 5 | , | |
| | | - | | | | | | | | - | 1 |
| | , | | | | | | | | ٠ | | ١ |
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| | | | | | | | | | | | |
| | | Service Monstras (CALIMANA, Contra | | Che Flortrinty and Water | Transport and Communication | Total Designation Transfers | Toursmon Banking and Pinance | The Services | New Sections | Poblic Administration and Defence | |
| | | | | Thurst | XVIII | XIX | X | XX | XX | XX | YVY |

Mean annual rates of change are not given in the table for Industrial Ord-are less than 10,000.

16

ment changes by Industrial Orders North Western R

| | Mean | avand comp | compound rates of change in estima of female employment in employment | of charge in neg to emplo | Mean annual compound rates of change in estimated numbers of female employment in employment | mbers |
|--|----------------------------|------------------|--|---|---|---|
| Industrial Order | 1953-63 | | 195 | 1953-59 | 195 | 1939-63 |
| Title | North Western Region | Great | North Western Region | Great Britath | North Western Regton | Great Britain |
| 6 | 5 | 9 | 5 | 9 | 8 | 8 |
| All industries and services | 0.5 | Ξ | 0.1 | Ξ | 0.5 | 1-7 |
| Primary industries | -2.6 | 9-0- | -3.0 | 9-0- | -2.0 | 9.0 |
| Agriculture, Forestry, Fishing | # 0 1 7 | ê <u>-</u> | 12.4 | 3:3 | 9.9 | 1-0-1 |
| Manufacturing infastries | -1.5 | 0-2 | 7 | ۰ | 1.1 | 7-0 |
| Pough Direct and TOMORO. Common and Misch Howitzes Mand Meritaries used of code, and which doesn's specification and which dependent violent and the properties of the code o | 0011160410410 | 0.00010010010111 | 12011124411 | 111111111111111111111111111111111111111 | 011441100010 | 940000000000000000000000000000000000000 |
| Castraction | 3.5 | 5.4 | 8:0 | 5.4 | 4.9 | 7. |

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XVII



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| | 1 | | | | | Estima | Estimated numbers of sugitoyees (total—mole and | bers of employees (total—mole an | e of the h | dem-h |
|------------------------------|-------|---|--|---|-------|--------|---|----------------------------------|------------|-------|
| | | | | | 1953 | 1954 | 7935 | 9567 | 1957 | 1958 |
| | S | | | | 8 | 5 | દ | ව | 8 | 8 |
| Great Britain | | | | | 54-8 | 55.5 | š | 9.99 | 26.8 | 8 |
| Scotland | | | | | 55-3 | 55.8 | 85.8 | 26.1 | 26-2 | 55.55 |
| Northern Region . | | | | • | \$2.3 | \$2.5 | \$2:5 | 53-3 | 53.3 | 8 |
| East and West Ridings Region | Regio | g | | • | 0.95 | 57-4 | 57.8 | 28.6 | 58.9 | 8. |
| North Western Region | | | | | 80 | 39.5 | 6-65 | 80.0 | 1.00 | 8.00 |
| Wales | | | | , | 47.2 | 47-1 | 47.3 | 47.6 | 47.6 | 47.1 |
| North Midland Region | | | | | 54.3 | 25.7 | 55.2 | 85.9 | 96.0 | 3 |
| Midland Region . | | | | | 59-1 | 4.09 | Ġ | 69.1 | 5.0 | 9 |
| South Western Region | | | | | 45.2 | 46.0 | 46.5 | 47.0 | 9.29 | 46.6 |
| South East England | | | | | 55-1 | 88.9 | 999 | 5 | \$7.8 | 8.63 |

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1961 57.0

enthlyed and aventaloyed, 1962

oped 15 and over 1960 8

8 8

****** 845588888 845588835 845588838

845845888

In this table, Doeset (excluding Poole) is included in South East England for the years prior to 1958.

| | | | Estim | ated numb | Estimated members of make employees, employed and sorroployed, as percentage of the home population in the saxer age groups | e employe ne popula | tes, employ | to augu o | e grosps | ar perce | Mage | |
|--------------------------------|----------------------------|-------------------|--------------|--------------|---|------------------------|-----------------------|--------------------|--------------|----------------------|-------------------|--------------|
| Area | dynd | 1953 | 1984 | 1362 | 1986 | 1987 | 9564 | 1989 | 1960 | 1961 | 7967 | 1963 |
| 6) | 63 | 6 | £ | S | 8 | 8 | 9 | 8 | (10) | (33) | 63 | (13) |
| Great Britain | 15 and over 65 and over | 7.7 7.7 7.7 | 5.7 | È Ä | 8.1 | 28.0 26.1 | 77-9 | 21.5 | 21-6 | 21:12 | 84 | 76-9 19-4 |
| Scotland | 15 and over 65 and over | 12.5 | 28:0 | K4 | 77.9 | 22 27 6 | 12 K | 76.5 | 76-1 | 22.0 | 26. 2.2 | 18.7 |
| Northern Region | IS and over 63 and over | 76.5 | 18-4 | 76-6 | 17.5 | 77.3 | 77·8 16·8 | 77.0 | 75-9 15-2 | 75-0 | 73.8 | 73-3 |
| East and West Ridings Region . | 15 and over 65 and over | 24.9 | 88.2 | 86.0 | 24-9 | 24-7 | 81-0 22-7 | 89 18.8 18.8 | 80-3 18-6 | 89.7 19.8 19.8 | 9.5 9.0 9.0 | 86.1 18:1 |
| North Western Region | 15 and over 65 and over | # # # # | 23 | 24.3 | 8 H | 8.7 | 8 1 1 1 1 | 79.8 19.8 | 39-6 | 28.7 26.7 | 78.9 | 79:2 18:9 |
| Wales | 15 and over 65 and over | 11.2 | 8 67 | 2.5 | 18.7 | 9-61 | 178 | 5.5 | 15.4 | 89-6 15-5 | 13:1 | 68:9 12:9 |
| North Midhad Region | IS and over 65 and over | 75-9 | 25.5 | 気が | 26.5 | 8 % 8 % | 24.5 | 76-7 | 19:8 | 26-0 0-02 | 35.5 | 75.3 |
| Midland Region | 25 and over 63 and over | 31.5 | 81.5 80.6 | 85.4 33.2 | 25 | 82-8 31-2 | 20.0 | žž | 83:2 24:9 | 23:7 | <u>1</u> | 8 ti 8 ti |
| South Western Region | 15 and over 65 and over | 17.4 | 173 | 89.6 19.1 | 86 | 88. | 18:5 | 66.5 | 17.4 | 17:7 | 8.9 13.8 | 65.9 |
| South East England | 15 and over 63 and over | 92.50 | 25.6 | 44. | 28:1 | 28.3 | 22.8 | 22.5 | 25.4 | 5.52 5.52 | 52 | 78-6 |

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in this table, Doeset (excluding Pools) is included in South-East Bratand for the years prior to 1953.

Table 34 Unemployment rates North Western Region and Great Britain 1953-63

| | | Unemplo | yment percen | Mages: arms | al averages | | the Nort | ment perce h-Western | Region as |
|------|----------------------------|------------------|----------------------------|------------------|----------------------------|------------------|----------|-----------------------------|-----------|
| Year | To | rai | Ma | les | Fem | aler | ratios | of the Great percentages | |
| | North Western Region | Great Britain | North Western Region | Great Britale | North Western Region | Great Britain | Total | Males | Females |
| (1) | (2) | (3) | (4) | (5) | (6) | (2) | (8) | (9) | (10) |
| 1953 | 2.1 | 1-6 | 2.0 | 1.6 | 2-2 | 1.7 | 1.3 | 1-3 | 1-3 |
| 1954 | 1.5 | 1-3 | 1.5 | 1-3 | 1.4 | 1.4 | 1.1 | 1-2 | 1.0 |
| 1955 | 1-4 | 1.1 | 1.2 | 1-1 | 1.6 | 1-1 | 1-3 | 1-2 | 1-4 |
| 1956 | 1-3 | 1-2 | 1-3 | 1-2 | 1.4 | 1.2 | 1-1 | 1-1 | 1-2 |
| 1957 | 1.6 | 1-4 | 1.7 | 1-5 | 1.4 | 1.3 | 1-1 | 1-1 | 1-1 |
| 1958 | 2.7 | 2.1 | 2.8 | 2-3 | 2.6 | 1-8 | 1-3 | 1-2 | 1-5 |
| 1959 | 2.8 | 2-2 | 3-0 | 2-4 | 2.4 | 1.7 | 1-3 | 1-2 | 1-4 |
| 1960 | 1.9 | 1-6 | 2-2 | 1-8 | 1.6 | 1.3 | 1-2 | 1-2 | 1-2 |
| 1961 | 1-6 | 1-5 | 1.9 | 1-7 | 1-2 | 1-1 | 1-1 | 1-1 | 1-1 |
| 1962 | 2-6 | 2-0 | 2.9 | 2-4 | 2.0 | 1.5 | 1-3 | 1-2 | 1-4 |
| 1963 | 3-1 | 2-5 | 3-6 | 3-0 | 2-2 | 1.6 | 1-2 | 1-2 | 1-4 |

NOT

The unemployment rates given in columna 2-7 are the annual averages of the monthly figures of total repiatered unemployed (including temporarily stopped) expressed as a percentage of the estimated numbers of employees (employed and unemployed) at mid-year.

| | | Average nur | nber of migra | art employe | es per annun | - |
|---|-------|---------------------------|---------------|-------------|-----------------------------|----------|
| Origin/Destination of suigrants | the | To North Wes Region | tern | th | From North Wes Region | tern |
| | Total | Males | Pemales | Total | Maler | Premaler |
| (3) | (2) | (3) | (4) | (3) | (6) | (7) |
| All areas of Great Britain outside the North- Western Region . | 64-1 | 44-1 | 20.0 | 66-9 | 46-0 | 20-9 |
| Control of | 6.9 | 1.0 | | | ١ | |

Northern Region East and West Ridings Region 6.0 Wales 1.9 North Midland Razion 3.6 Midland Region . 2.6 South Western Region 3-5 22-5 2-5 0.9 South East England . 28-1 18 9

196 400

295 295 856

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Midland Region

South Western Region

South Fast England .

| | | Male | , | | French | es | or loss (-) |
|---|--|--|--|-------------------------------------|---------------------------------------|---|---|
| Area | In | Out | Net gain (+) or loss (-) by suggration | In | Out | Net gain (+) or loss (-) by migration | of estimated average numbers of employees 1953-63 |
| (1) | (2) | (3) | (4) | (J) | (6) | (7) | (8) |
| Scotland Northern Region East and West Ridings Region North Western Wales North Midland Region | 183 213 327 441 195 335 | 262 266 340 460 220 328 | -79 -53 -13 -19 -25 +7 | 85 84 140 200 75 135 | 119 108 161 209 92 143 | -34 -24 -21 -9 -17 -8 | -5-2 -6-0 -1-8 -0-9 -4-4 -0-1 |

160

145

173 138 403

-13 +7 -0.9

(thousands)

+0.6 +119 +3.9

| 32.9 | 4 2 8 | 918 | 6.9 | <u>4</u> <u>4</u> | ä | 25-1 | 18.9 | 23.0 |
|------------------|--------------------------------|---|---------|---|---------|----------------|--------------------|---|
| 157,375 | 119,086 47,024 12,744 | 38,915 7,901 12,502 | 8,798 | 3,705 | 9,491 | 30,725 | 9,115 5,738 | 10,182 5,690 |
| 24.0 | 31.6 | 35.5 36.5 38.0 | 9.8 | 17.3 | 25-2 | 20-2 | 18:7 | 25-2 16-6 |
| = | | 19,98 6,474 17,73 | | | | | 5,772 | |
| 434,277 | 266,984 89,892 | 22,020 | 132,633 | 95,068 37,565 | 34,660 | 127,261 | 36,353 | 33,746 |
| 33 | *82 | 888 | 16 | ដង | 46 | 4 | 8.1 | 82 |
| 160,427 | 123,571 | 25,446 8,675 12,830 | 20,906 | 9,412 | 16,050 | 56,389 | 13,663 | 918'6 |
| 7 | 222 | 2225 | = | 2 6 | 17 | × | 32.6 | 88 |
| 104,318 | 25,442 | 15,280 7,000 9,821 | 14,533 | 7,235 | 7,343 | 48,318 | 9,498 | 7,841 |
| 2,160 | 0.82 | 88 1 | 500 | 100 | 150 | 360 | , <u>s</u> | 1 8 |
| 88,720 | 31,240 | 17,910 | 12,670 | 8,200 | 1,000 | 10,400 | 3,040 | 1,330 |
| North Lancarbire | Ribble Blackburn sub-region | Preston sub-region - Buraley sub-region - Chorley sub-region - Rossondale sub-region | | Blackpool and Pylde sub-region Lancaster mh-region. | Furness | South Cheshire | Crewe aub-region . | Macclesfield sub- region Northwich sub-region |

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Table 40 Overcrowding North West Region 1961

| Area | Population in private konseluids | Percentage of persons at more than 14 persons per room | Area | Population in private households | at more |
|---|--|---|---|--|---------|
| (1) | (2) | (5) | (/) | (2) | (3) |
| Lancashire-A.C. with C.B's . | 4.983,835 | 5-6 | Cheshire—A.C. with C.B's . | 1.338.425 | 3-6 |
| Lancoshire—Administrative County | 2,143,158 | 3.9 | Cheshire Administrative County | 901,194 | 2-9 |
| Local authority areas with not less than 3-5 per cent of population living at more than 1½ persons per room Kirthy U.D. | 51.667 | 18-8 | Local authority areas with not less than 3-5 per cent of population living at more than 1½ persons per room Bolton C.B. | | |
| Huyton-with-Roby U.D. | 62,775 | 13-1 | Flortwood M.B. | 26,261 | 3-9 |
| Liverpool C.B. | 722,034 | 11-7 | Stretford M.B. | 59,194 | 3.8 |
| Aspell U.D | 6,740 | 8-6 | Barrow-in-Furness C.B | 63,717 | 3-7 |
| Bootle C.B. | 81,023 | 8-6 | Swinton and Pendlehury M.B. | 39,951 | 3-7 |
| Whitworth U.D. Inco-in-Makerfield U.D. | 18,019 | 7-3 | Wardle U.D. | 3,895 | 3-6 |
| Longridge U.D. | 4,686 | 7.1 | Droylsden U.D. Mossley M.B. | 25,422 9,768 | 3-5 |
| Present U.D. | 13,066 | 7:1 | Brkenhead C.B. | 138,162 | 7-4 |
| Whiston R.D. | 40,594 | 6.9 | Winsford U.D. | 12,731 | 7:1 |
| Widnes M.B. | 51,727 | 6.8 | Buckley R.D. | 16,662 | 5-7 |
| | 17,275 | 6-7 | Crewe M.B. | 52,363 | 5.5 |
| St. Helens C.B. | 106,393 | 6-5 | | 39,006 | 5-4 |
| Manchester C.B. | 643,213 | 6-4 | Middlewich U.D. | 6,776 | 5-2 |
| Salford C.B. Kirkham U.D. | 151,229 | 6-1 | | 57,243 | 4.8 |
| Wigan C.B. | 4,731 77,548 | 5-7 | | 43,920 | 4.6 |
| Fylde R.D. | 15,336 | 5.5 | Tarvin R.D. Stalybridge M.B. | 14,359 | 4-6 |
| Middleton M B | 56,155 | 5.5 | | 21,860 19,254 | 4-3 |
| | 14,160 | 5.4 | Wallasey C.B. | 19,254 | 4-9 |
| Warrington C.B. | 74,337 | 5-3 | Nantwich R.D. | 27,511 | 3-8 |
| | 5,881 | 5.2 | | ,511 | |
| Haydock U.D. | | 5-1 | | | |
| Padiham U.D. | 9,811 | 5.0 | | | |
| Preston C.B. Upholland U.D. | 110,527 | 4-8 | Derhyshice (part) | | |
| Abram U.D. | 7,096 6,004 | 4-8 | 1 1 | - 1 | |
| | 78,953 | 4:3 | Local authority area with not less than 3-5 per cent | | |
| | 113,266 | 4.1 | of population living at more | | |
| | 19,297 | 4.3 | than 14 persons per room | | |
| | 5,079 | 4-3 | | | |
| | 58,296 | 4-1 | Glossop M.B. | 17,190 | 4.6 |
| Withnell U.D. | 2,762 | 4-1 | | 11,350 | |
| Rochdale C.B. | 84,260 | 4.0 | | | |
| Dalton-in-Furness U.D. Fareworth M.R. | 10,296 | 4-0 | | | |
| Farnworth M.B. Skelmersdale U.D. | 26,513 6,271 | 4-0 | | | |
| skemmerstane C.D | 6,271 | 4-0 | | | |



| (able 41 The Housing Problem Vorth Pest Region 1964-81 | | | | | | | | |
|---|--------------------|-------------------------------|------------------------------|-----------------------------------|-----------------------------|----------------------|------------------------------|----------------------------|
| Resr | All | South East Lones | Meno- nik | Warring- ton —Wigon area | Ribble | Lancaster —Pylite | Paraess | South |
| (1) Senand for additional devellings | 8 | 5 | 9 | છ | 9 | 8 | 9 | s |
| 1. Shortage 1964 | 82,130 | 26,910 | 40,190 | 7,530 | 2,600 | 1,500 | 8.6 | 2,230 |
| A valual increase to mander or nonsolvest againing no magazion magazion. 3. Effect of currently proposed planned overspill schemes at Total (them 1, 2 and 3). | 363,710 | 105,940 45,100 87,730 | 90,950 -29,210 101,930 | 36,250 +54,010 97,590 | 19,030 +15,000 36,630 | 9,500 | 3,520 | 18,300 +5,300 25,830 |
| | -54,000 309,710 | 45,350 | -36,900 | -9,000 | 29,630 | +32,700 | -1,600 | 49,800 35,620 |
| (a) bessed on local estimates (see Table 39, col. 2) | 439,970 | 211,060 | 101,240 | 28,550 | 75,030 | 12,670 | 1,000 | 10,400 |
| (a) outside 39, out. 11) | 536,931 | 261,495 | 50,059 | 57,277 | 119,036 | 8,798 | 9,491 | 30,725 |
| | 41,410 | 11,840 222,900 273,335 | 23,610 | 31,730 | 1,810 76,840 120,896 | 12,870 | 1130 1130 1430 1430 | 31,285 |
| (a) construction of voluntary migration (Stems 6 and 9a) (b) elimination of voluntary migration (Stems 4 and 9a) | 791,090 | 310,650 | 190,230 | 129,380 | 106,470 | 22,370 | 8,680 | 36,780 |
| as at item 7b (items 4 and 9b) | 942,051 | 361,085 | 175,599 | 158,107 | 157,526 | 18,698 | 14,131 | 57,105 |
| ites for now dwellings | | | | | | | | |
| New areas Ackerekopment areas 7. Total (trem 11 and 12) 5. Surplus (+) or deficiency (-) of sites against demand | 969,940 | 153,980 111,570 265,550 | 93,600 67,330 160,930 | 14,290 | 194,890 | 48,390 | 5,180 | 52,200 4,350 56,550 |
| (a) continuation of voluntary migration (item 13—frem | +78,850 | 2,700 | -29,360 | +18,080 | +88,420 | -6,680 | +1,120 | 0/9/6+ |
| 109 | +24,850 | -45,100 | -63,860 | 49,080 | +81,420 | +26,020 | -480 | +19,770 |

| Public building rates: average number of dwellings per annum | | | | | | | | |
|---|------------|--------------|--------------|--------------|------------|---------------|-------|-------|
| 15. Current rate (local surbority building mid-1961-mid- 1964) | 14,530 | 6,674 | 3,952 | 1,541 | 1,102 | 195 | 110 | 956 |
| Rate called for over the period to deal with (a) alm determote (4s at form 7a) (b) all almost form from 100 and 250 of reflect derivated | 25,881 | 12,415 | 5,955 | 1,680 | 4,413 | 745 | 8 | 613 |
| (a) assemble confinement of voluntiary algoriton (25% of item 6) | 32,871 | 13,778 | 8,306 | 3,173 | 4,956 | 1,378 | Π | 1,169 |
| (c) an obstance (so at real style and style and style and separation (35% of team \$40 and \$25 % of other december of team \$40 and \$25 % of other december of team \$40 and \$25 % of other december of team \$40 and \$25 % of other december of team \$40 and \$25 % of other december of team \$40 and \$25 % of other december of team \$40 and \$25 % of other december of team \$40 and \$25 % of other december of team \$40 and \$25 % of other december of team \$40 and \$25 % of other december of team \$40 and \$25 % of other december of team \$40 and \$25 % of other december of team \$40 and \$25 % of other december of team \$40 and \$25 % of other december of team \$40 and \$40 | 33,665 | 14,402 | 8,843 | 3,305 | 5,059 | 168 | 135 | 1,024 |
| assuming elimination of voluntary migration (25% of item 4) | 39,368 | 17,369 | 5,832 | 4,995 | 7,650 | 69 | 633 | 2,230 |
| NOTS: 19 New Town corporations on the scale allowed for at item 3 would contribute 3,118 dwellings yer annum to the public building | t item 3 w | ould contrib | abs 3,118 de | rellings per | annum to t | se public but | Iding | |

EXPLANATORY NOTE Method of calculating future increases in households: assumptions regarding planned overcoil.

Introduction

1. Numbers of households at 1981 for each subdivision of the region have been calculated from the projections of natural chance.

2. The effects which those currently proposed planned overspill schemes involving movement of population across sub-divisional boundaries will have on housing demand have then been allowed for on the basis that these schemes will be occupied at an average of 3.5 persons per dwelling

3. Alternative hypotheses are introduced concorning voluntary migration:-(a) not change for each sub-division 1964-81

will follow the 1956-64 trend and will be associated with an average household size

of 2.5 persons: (b) the sub-divisions will experience no net change in the period 1964-81

Household projections 4. Estimates of the number of households in 1981 have been obtained by calculating the number of heads of households to be expected

in the 1981 projected population (see Chapter 1): the proportions of the population within certain ase-sex-marital condition groups forming heads of households at the 1951 Census have heen multiplied by the estimated total numbers in those groups at 1981

5. The estimates of numbers of households have heen translated into estimates of numbers requiring separate accommodation on the basis that (a) all existing private households should be

separately housed except that only 1 in 4 of single person households sharing accommodation will require separate accom-

modation: (b) all married couples sharing accommodation should be separately housed.

Planned oversoill 5. The following assumptions which have been

made regarding planned overspill schemes are not intended to pre-judge any decisions that have still to he taken on them:-

| | | Over | solll e | tom | | | | No. of hous | ekolds to be accome | nodated from |
|---------------|---------|--------|---------|------|-----|-----|------|--------------|----------------------|--------------|
| | _ | | | | | | | All areas | South East Lance, | Merseyale |
| | | | (/) | | | | | (2) | (3) | (4) |
| All schemes | | | | | | | - | 74,330 | 45,100 | 29,230 |
| New Youns | | | | | | | | 53,000 | 28,000 | - 25,000 |
| Runcorn | | | | | - 1 | - 1 | - 11 | 11,000 | 20,000 | 11,000 |
| Skelmersdak | | | | | | | - 1 | 14,000 | _ | 14,000 |
| Warrington. | | | | | | | | 13,000 | 13,000 | 1 |
| Leyland-Che | rky | | | | | | | 15,000 | 15,000 | _ |
| Town Develops | eat / | et sek | emes | | | | | 21,330 | 17,100 | |
| Westhoughte | on. | | | | | | | 12,300 | 12,300 | 4,230 |
| Widnes . | | | | | | | - 11 | 3,730 | 14,500 | 3,730 |
| Winsford | | | | | | | | 500 | _ | 500 |
| Crows, Mass | les fic | d and | Wins | ford | | | - 11 | 4,800 | 4,800 | 300 |

^{1.} The figures for Leyland-Chorley are based on experience in earlier New Towns and on large scale hullding commencing 1972-73. It is possible that a better performance may be achieved with new techniques; and that the new town may also take overspill from Messeyside. The figures for Crowe, Macclesfield and Winsford are on the assumption that half the dwellings provided will

be available for overspill. Printed in England for Her Majesty's Stationery Office by McCorquodale & Co., London, N.W.

